Engheering Economics

MODULE-1



Economics is a social science. The aim of social science is to study different accepts or activities of human being in the society. Social studies has several branches and each study an analysis and definite accepts of human activity. The recover, we need to study the scope, subject matter of different subject including economics. Thus, economics helps in the study of mankind. It helps how to lead a good like in the society by making the best use as resources and hand.

Resources made theck form of money, in labour, capital, energy which are limited in nature that economics help us how to make the best use of all these, so as to get maximum satisfaction. Thus economics is a social science which describes the factors that determining concepts like production, distribution and consumption of goods and services.

The term economics is derived from 2 words ofker meaning household and nomous meaning loss fouler. It means ouler of household management.

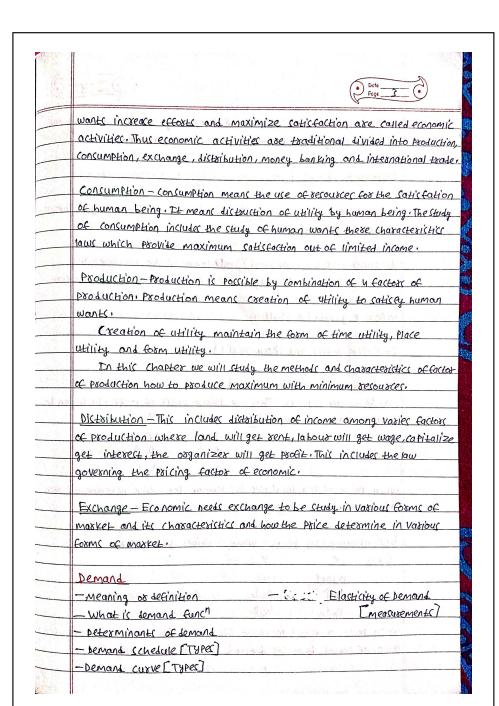
Engineering economics is a subset of economics with a use and application of economics principle in engineering phenomenon. It is a branch of microeconomics which deals with the decision regarding alocation of limited resources. Thus economics in engineering field helps in formulating, planning, estimating and evaluating economic outcomes. When alternative to 1 - accomplish a definite purpose is operable.

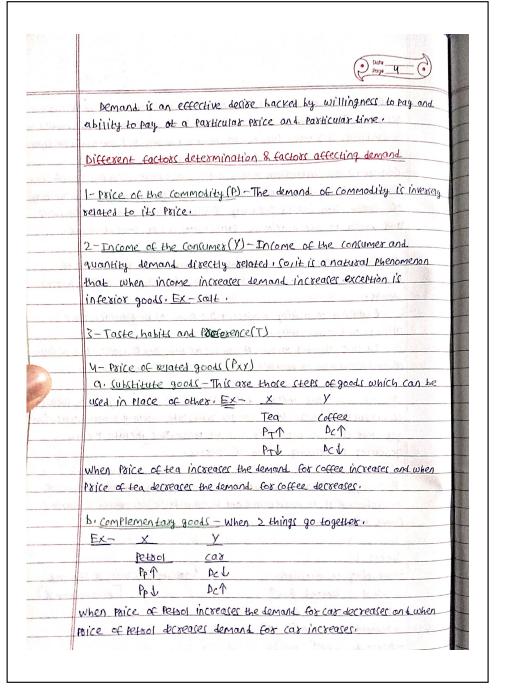
classical economics - Adam Smith the father of economics in his book and enquises into the nature and the causes or wealth of nation define economics as a science of wealth. It ensists both people and the king.

J. B. Say - In the year 1803 he define economics as a science of Production, distribution and consumption of wealth.

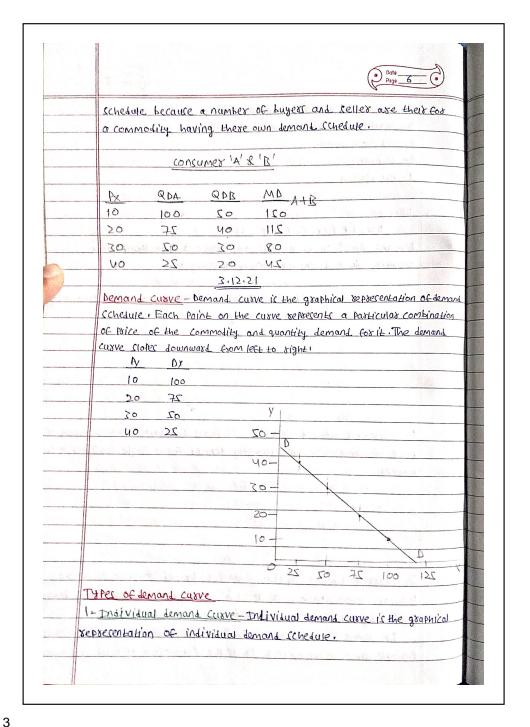
Alfold Marshall—In his book principal of economics define economics has a Study of mankind in an ordinary business of life. It examines that Part of individual and Social action which is closely connected with the attainment and with the use of material requisite of well being.

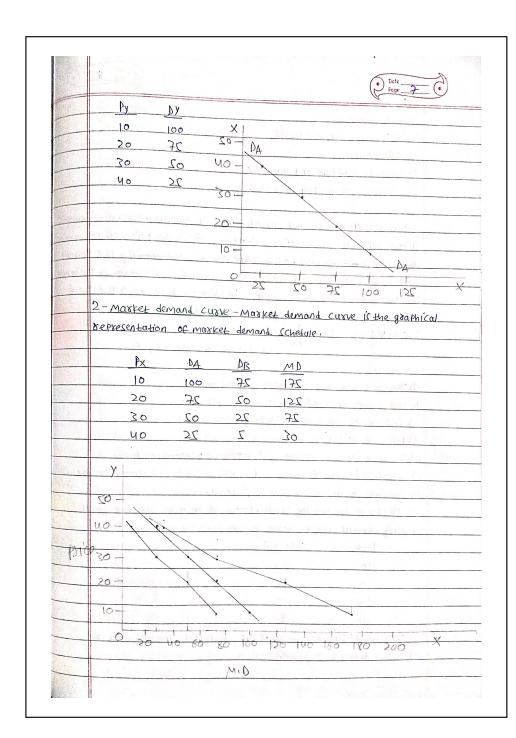
	Thus it is a one side the study of wealth and on the other side the past
	of Childy of Man,
	A A Property of the second of
	Lional Rubbin-In the year 1932 in his book nature and significance
	Commiss clience gave the definition. He call element studies
	human behavious as a selationship between ends and scases means
	which have alternative uses,
	AND TO THE REST OF STREET AT SECUL SECTION OF STREET STREET
1 9	2.12.21
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1	a) Allocation of recources
	b) method of production-method of production involves the choice
190	regarding the use of either labour intensive technique of production
1	or capital intensive technique of production,
VE	Labour intensive means use of more labour or less capital or
1	machinery and capital intensitie means use of more machine and
Ţ	lecc labour, many and the state of the state
×1.5	C) Distribution of goods
1	d) Utilication of sesousce(Indiana & Indiana & Indiana
	e) capacity to produce
3) (2. Scope or cubiect matter of economics
i (6)	The subject matter of economics can be desived from different
	definition of economics. The definition starts with the existence of
_	unlimited wants. These wants has to be satisfy by resources,
	Resources can be earned by making efforts people walkin order to
-	earned reconscect a lamb and a la
4	efforts ratisfaction
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	Co, the Subject matter of economics centres assound wants, effosts

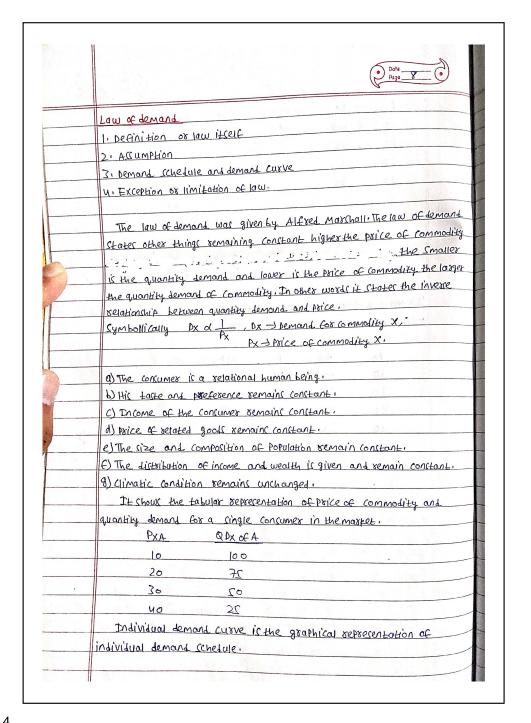


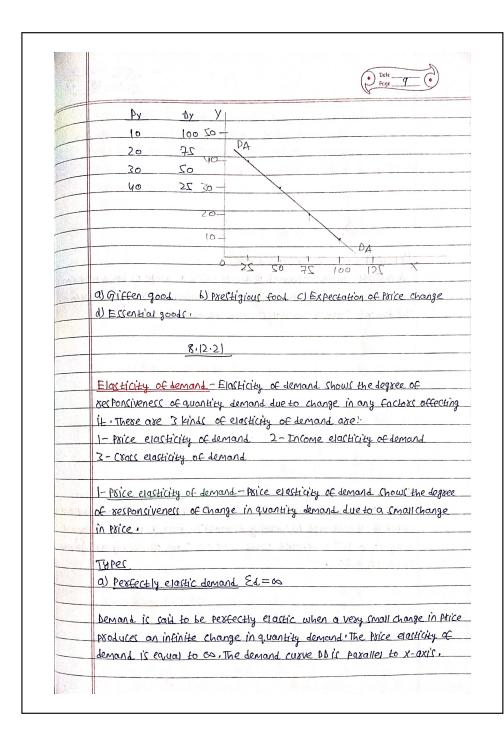


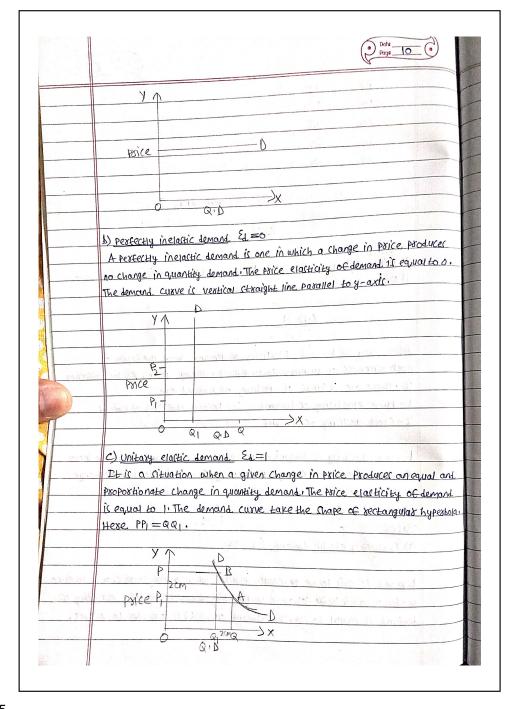
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1	5- Entire expectation of Price (F)
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. 0	13.1016
	8- Climate
	9- Population
1	Demand funch
-	D=f(P,Pxy,T, y, Popn, Adv)
	perfect the coll and acc
	quantity demand and the factors offecting it.
4	offecting 17.
	Demand Schedule - It is a tabular sepresentation of list of price and
	a mantity demand for a commodity.
	CERTAL VALUE AND
	P _X QP _X
	10 100
	25 05
	02 05
	25 04
	I-Individual demand schedule-It shows the tabular representation of
	Price of commodity and quantity demand for a single consumer in the
	market.
	PXA QDX & A
	10 100
	25 05
	02 05
	25 40
	2-Market demand schedule-Market demand schedule shows the
	tabular representation of Price of commodity and quantity demon
-	for it by a number of consumers.
	It shows the relationship bet quantity bemand and price for a
-	Periodic time in the market 'It is the submession of individual deman

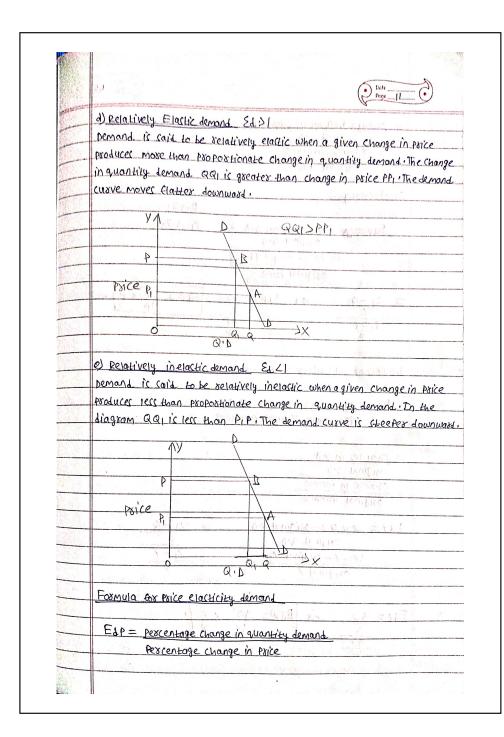


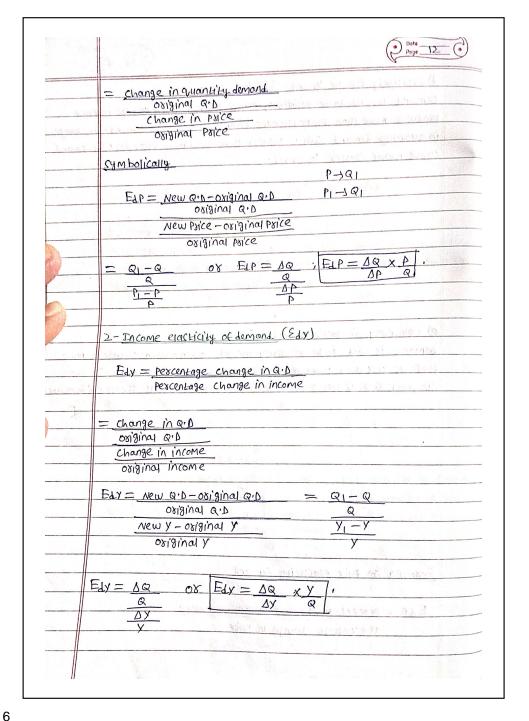


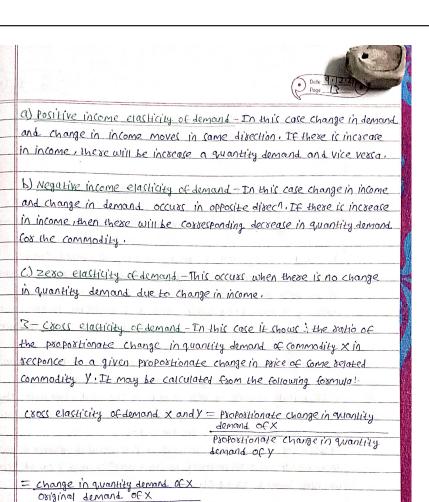












The cross elasticity of demand for substitute goods is always tre because the demand for one good increases when the price of substitute

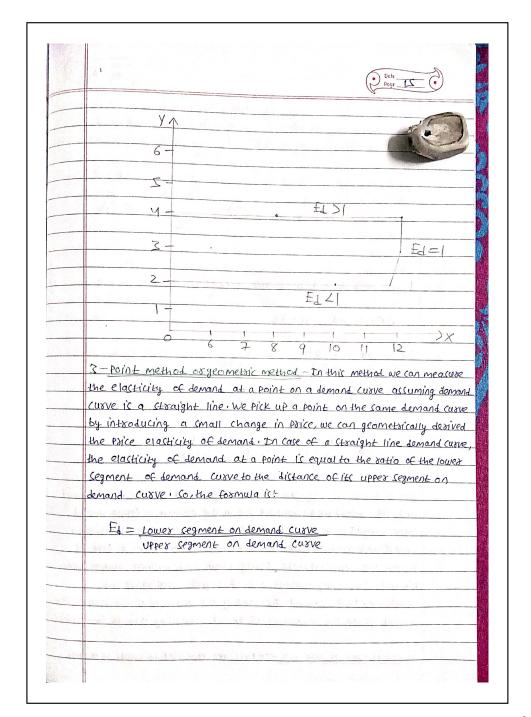
The cooss elasticity of demand for complementary goods is -ve because as the poice of one good increases the demand for 2nd good

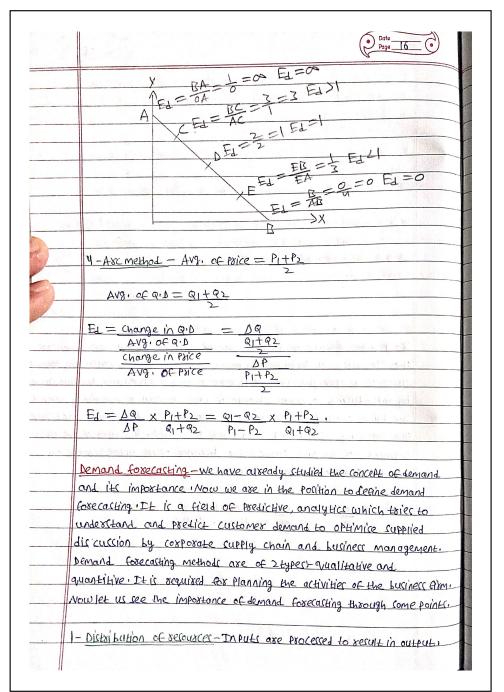
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change in Price of y

good increases, Ex- Tea coffee

						(F	Date Page 14			
	decreases. Ex- Petrol car									
9 (0)	PPA DCV									
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:98.)	1- Perce	entage m	nethod	-It ict	he method of p	sice elasti	city of demand			
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	11			dituse	changes with	the Char	ige in Price of			
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1-	11				reace in price					
<u> </u>					demand is equ					
					ace in police the					
A vilan					y then elastici	ty of dema	nd ic greater			
Vistal.	than one or relatively elastic demand.									
	C) When total expenditure increases or decreases with increase in price of									
194 1	decrease in price respectively in same direct then it is called relative									
	inelastic	deman	7 08 E	121,	To promise the second	5 7 S. A	ra la			
		.		1	Disect of change in TIE					
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This inputs include reconsider like material, machinery and human resource.

The business firm take decision like capital arrangement, manpower

Planning etc. This means can be done easily with the help of demand forecasting.

- 2-Helps in avoiding wastage of seconscer-bemond forecasting will help in proper investigation where product stands in the market and how future demand will be predicted for the product, so in order to avoid wastage it is always beneficial to have a sence of future demand for Product and services.
- 3- Sexues as a discentiand production—Producer needs to ensure that their is continues supply of goods and services in the market. If their is a proper prediction of the demand then it serves as a good instrument for buriness to undertake future activities.
- M-Pricing-If there are sincere prediction about the future in of the product then it is helpful for devicing pricing stargy.
- S- Decrease in business risk-where there is business risk demand
- 6-Inventory management It is one of the basic thing associated for future demand.
- 7-Helps in devising self policy Production is followed by sells. The business firm can plan its self policy effectively on the backdrop of demand forecasting. This implies the distribution of goods and services can be done on the basis of Prediction of demand.



Supply—Supply recess to the various quantities of a commodity

Offered for sale at different Possible prices at a given time supply
is a flow concept. Supply of a good depends on number of factors like
price of a good, price of related goods, technique of production, factor
prices, government policy etc., A change in any one or all of the factors
can change the supply of the commodity. To study the effect of any one
factor on the supply of the commodity, we keep the other factors
constant.

Stock means the total quantity of commodities which a saller will keep in the godown to be cold in future.

EX- 100 unit of X & Soeach out of that so units of x is sold at ESO each. This is the supply and sect so units is ho asked to be sed in subuse.

Supply schedule—supply schedule refers to the list of quantities of a commodity. offered for sale at different possible prices in a given time period.

Individual supply schedule—It is the list of quantities of a commodity offered too sale at different possible prices in a given time period by a single seller in the market.

	Px	· 95 of x 681A1	
	10	100	
	20	200	11-1
	30	300	
1	50	700	19.7

Market supply schedule - It refers to the list of quantities of a

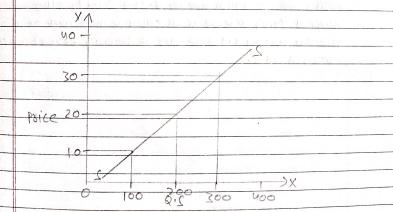


Commodity offered for call at different Possible Prices at a given time period by a number of sellers in the market. For example we have taken a sellers A and R. Again market supply is the horizontal submission of individual sellers, supply of commodity at a Particular Price.

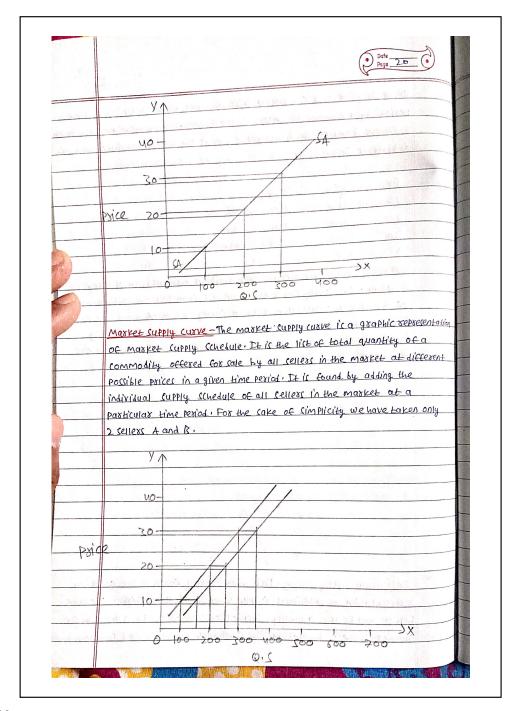
100					
1	Py	AZED A	N2:B	Mis	
	10	100	021	250	
2	20	200	250	OZN	
	30	200	025	650	

Supply curve—Supply curve is a graphical representation of supply character of the supply curve moves upward from left to right. Recause of the direct relationship between supply of commodity and its price.

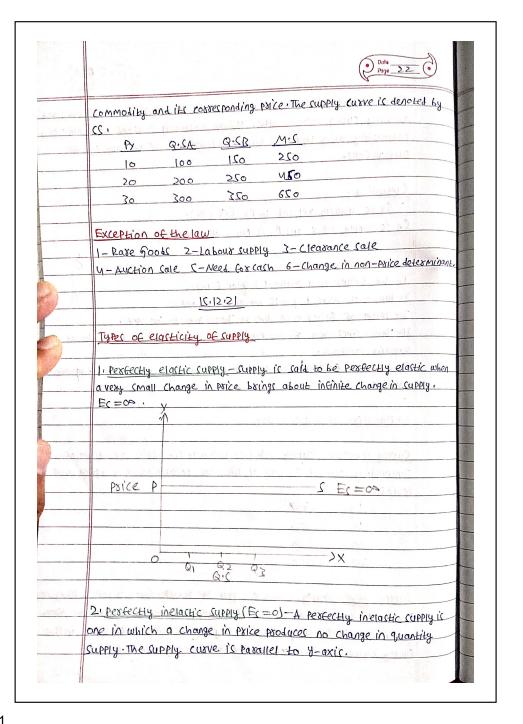
Each point on the supply curve shows the combination of quantity supplied of a commodity and its corresponding price. The supply curve is denoted by ss.

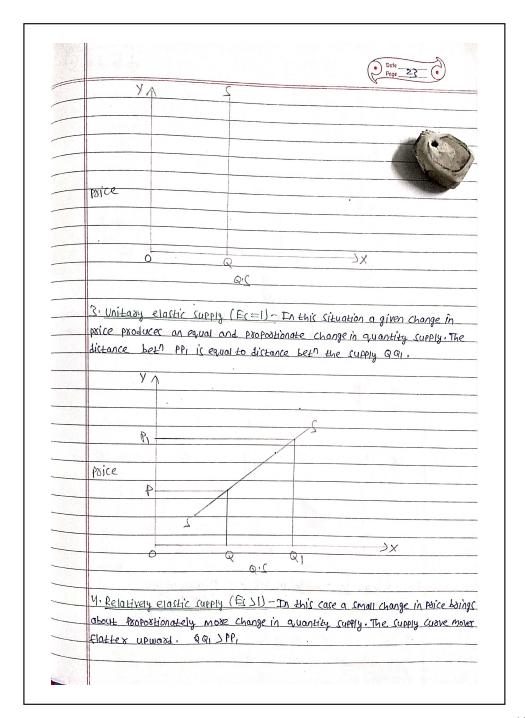


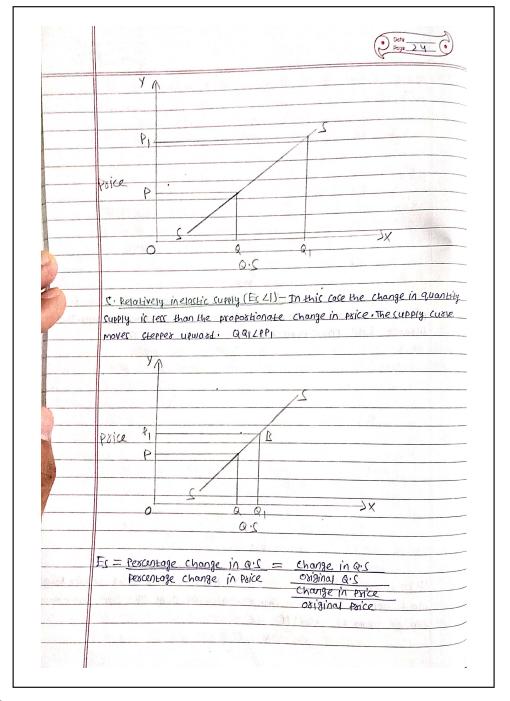
Individual supply curve—Individual supply curve is the graphical representation of individual supply schedule. It shows higher the price higher will be the quantity supplied of commodity. In a diagram the supplied curve is denoted by SA SA which moves upward from left to right.

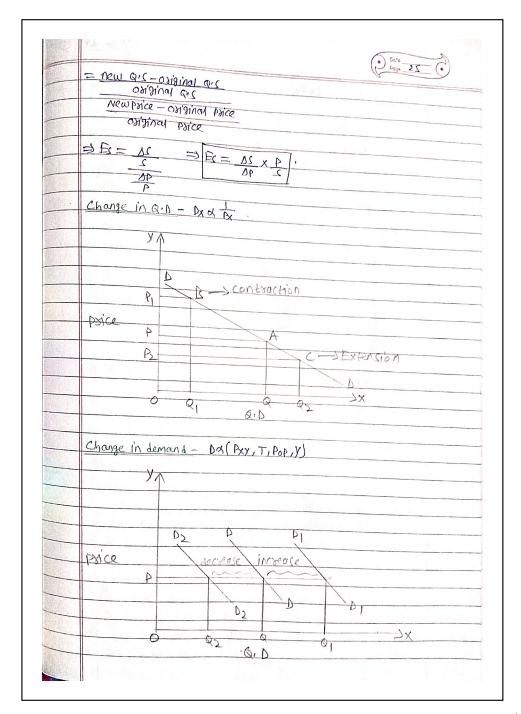


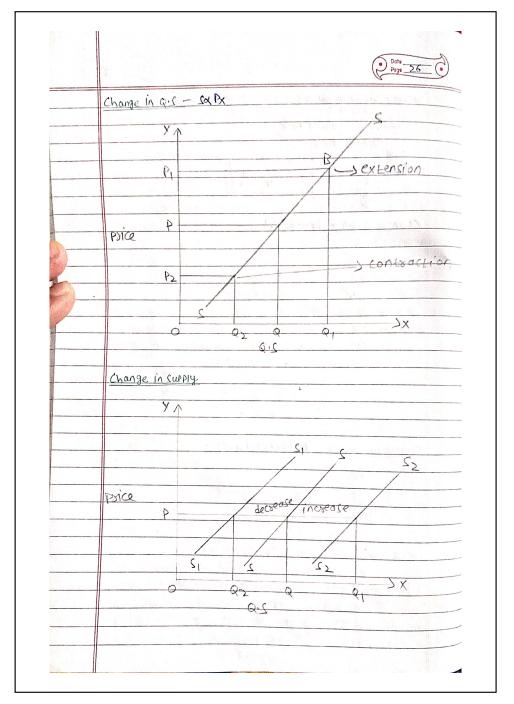
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	Law of Supply - To law of a
	Law of Supply - The law of supply explains the selationship beth poice and
8	things xemaining constant
	commodity sises it supply sises and when Poice of a commodity folls
	Symbolically
	Sx is directly related to Px (Sx x Px).
	Sx is supply of x and Px is paire of commodity of x.
	The second secon
Stepser.	ACSUMPTION
	1-The Seller is a dational human being.
	2-Prices of related goods remains constant.
	3- Prices of factor of Production Should remain Constant.
	M-The expectation of the produces and the government policy should
No.	bemain constant.
inta i	S-Natural factors like climatic condition and rainfall should remain
. (11)	nosmal.
	Explanation of law of supply
	U
	Supply schedule - supply schedule sefess to the list of quantities of a
	Commodity offered for sale at different possible prices in agiven time
arrecent Lagran	Period
	Px Q.CY
	10 100
	20 200
	30 300
	30 300
	Supply curve - supply curve is a graphical representation of supply schedule
il e	The supply cuove moves upward from left to right recause of the direct
CONTACE.	
414	I XEIGHANCHID KEE, CLIPPIL OF COMMODIFIE AND ITC BYICG FORE DOINE WITHOUT
- 184 - 192	selationship bet cupply of commodity and its price. Each point on the cupply curve shows the combination of quantity supplied of a

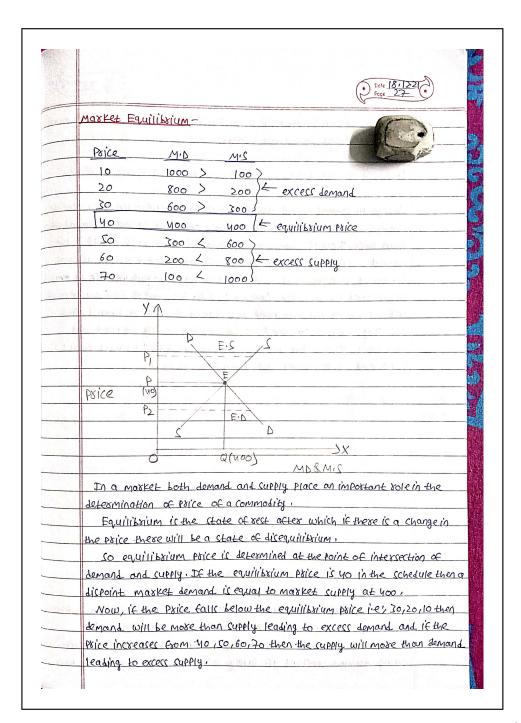










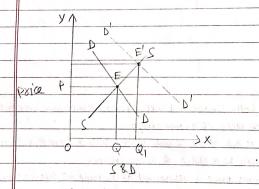




These cose, the equilibrium price is no determine in the market where marka

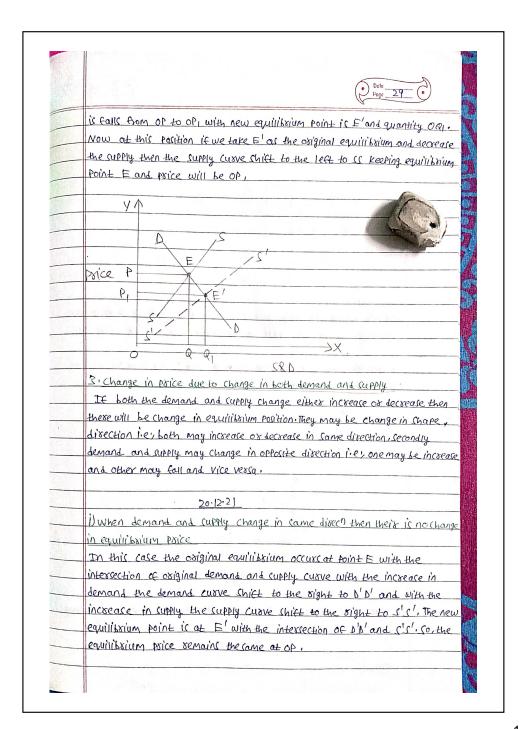
1. Change in price due to change in demand keeping supply constant

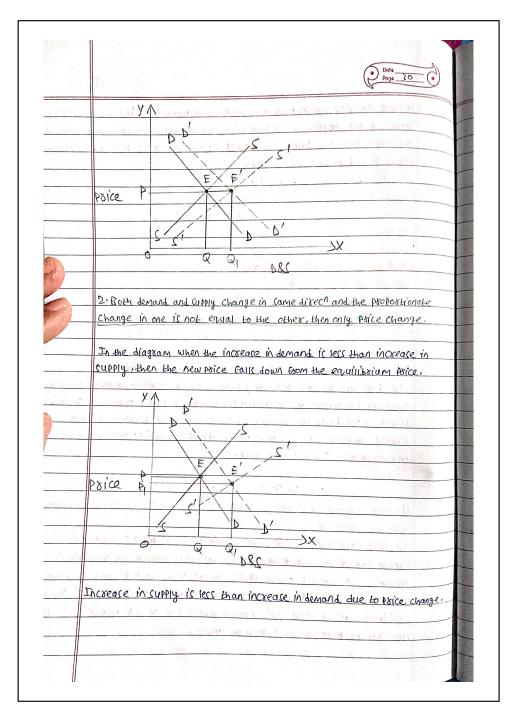
change in demand means either increase or decrease in demand where the change is costed due to the influence of other factors and DD is the than Price. There is change in the equilibrium Price. Is and DD is the original supply and demand curve both increase in demand E, where equilibrium price of and quantity of which increase in demand the demand curve shift from DD to D'D'. Then ship ship ship and the new equilibrium point is E'due to increase in demand. If it this stage we will consider E as the original equilibrium point and increase in demand. Then the demand curve will shift backward from D'D' to DD and the price will some down from OP, to OP.

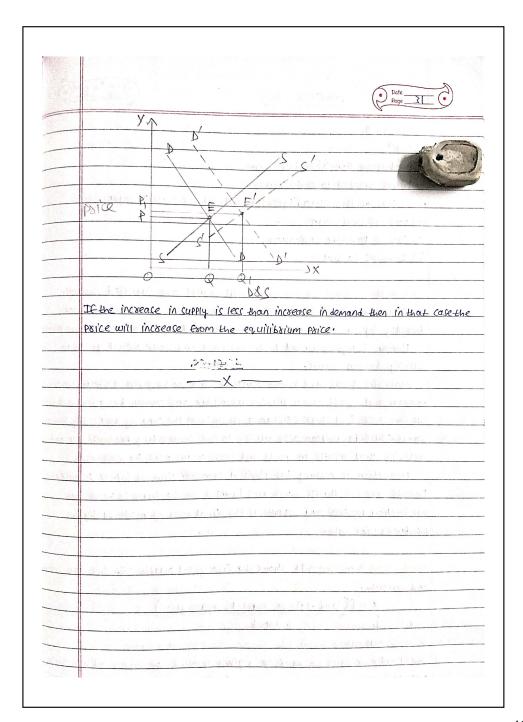


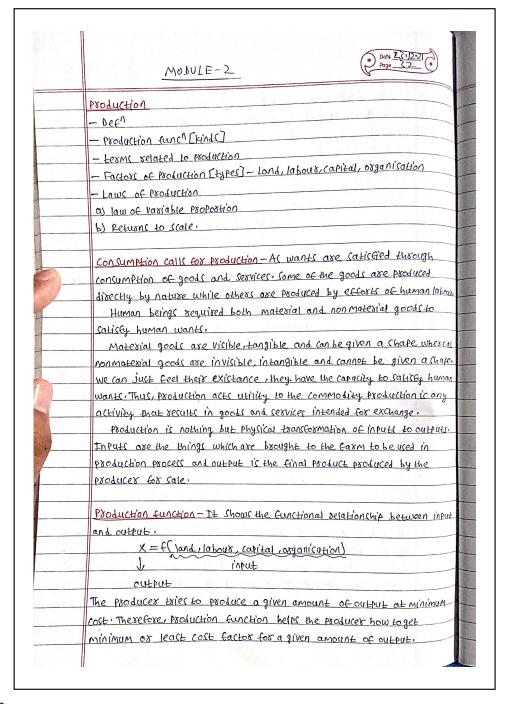
2. Change in Paice due to change in cupply keeping demand constant

Change in supply means either increase or tecrease in supply with demond remaining constant which result in change in price. The initial equilibrium point is E where original demand and supply intercept reeping demand constant it supply increases from ss to s's' the price

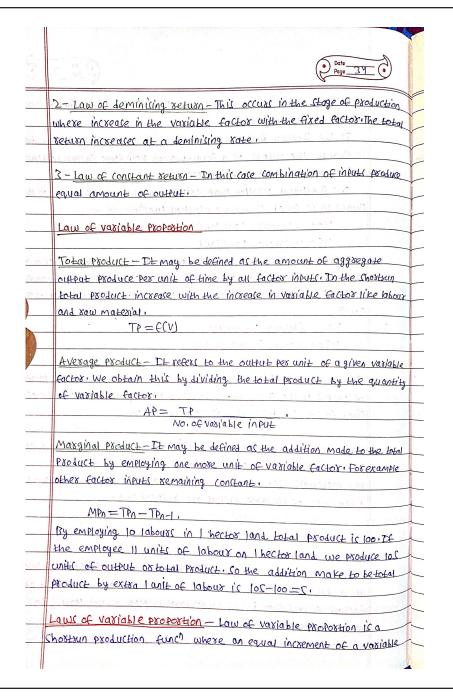




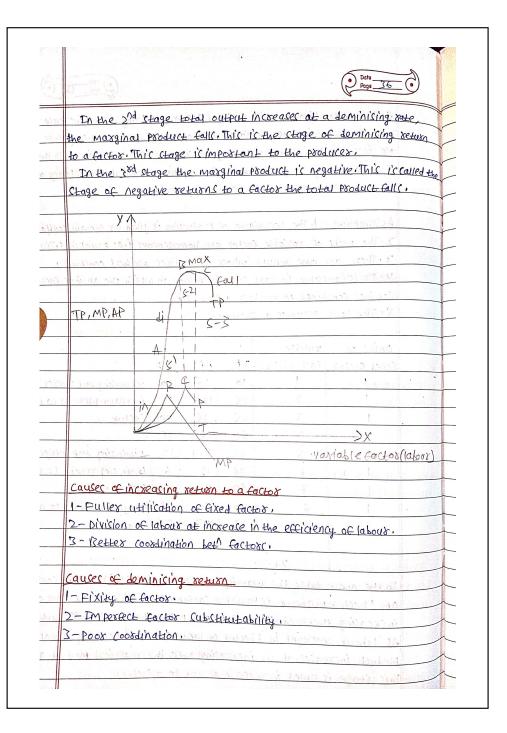


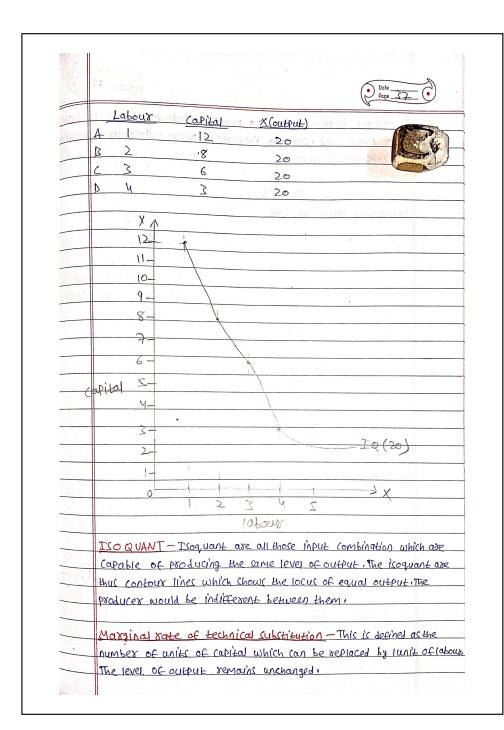


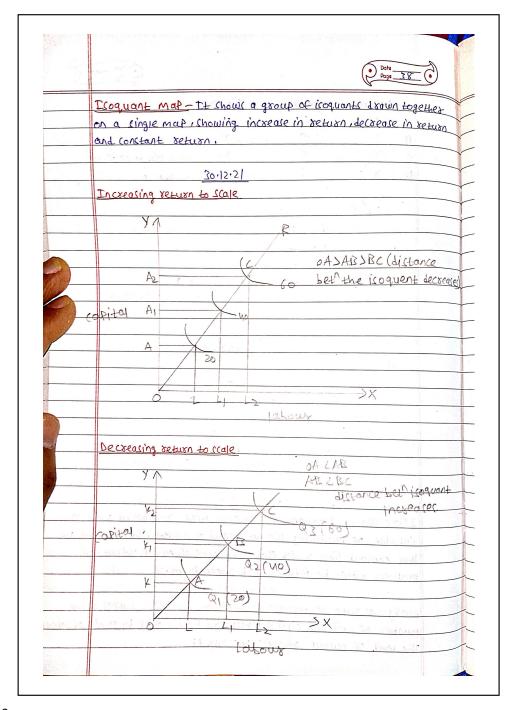
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(T)	Dete Page 33
14	
With a	Production function is divided into short-run production from a
315	ongoin production functions and an analysis are assured
	In the Shootsun it is not possible to change all the factors of production
_	to change the output of a farm, we can keep some factors constant
11.87.1	and vary others to study it effect on output.
	The functional relation that exists between input and output in the
	Chostoun is called shootoun production function
	yo= 4 labous; lasc land miles and representations.
	4S = 10 labous! I ascland
SLI	Longsiun is an operational time period in which the output of a fax
	can be varied by change in all the factors. The functional relation the
	exists bet input and output in the longern is called longoun Hooduction
- 11	funch, spirate a next ball
	Mox = Slabous : 6 (apital
	USX = 6 labous; 10 capital
Distri	AND IN THE AMERICAN STREET, AND STREET,
100 005	Fixed Factor - Fixed factor exists only in the shortsun. It is independent
	of output in the shoot-sun. Factories, machinery, land are example of
	fixed factor. It exicts even if the output is or
	along the state of the two
1 2	Variable factor - variable factor exists both in the shortoun and longs
4143.7	It changes with the change in output in the shortxin. Labour,
	raw materials, etc. are examples of variable factors, when output is
	quantities of variable factors are reduced to o,
	1 - 100 = 100
47.0	Laws of setusn in the same in the same pass of
01 0	They are the traduction and an incident of the supplemental the supplement
1.1.3	1- Law of increase in seturn - According to the law of increase in income
	at a pasticular Stage of production increase in amount of inputor
	factors of production brings proportionately more outfut leading to
-	incoease in setuan.
Herry	Co. In insuppose son party of skings from and what and was

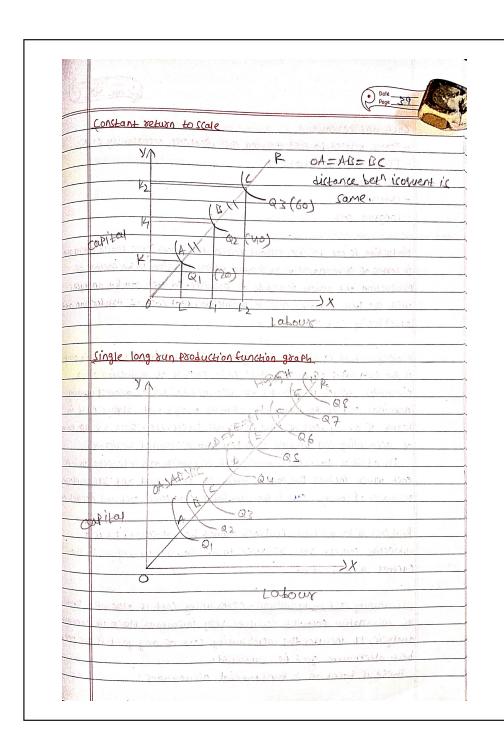


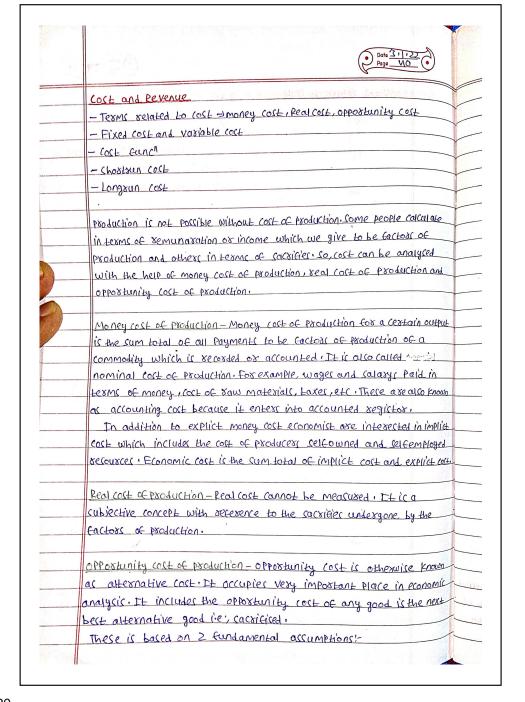
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11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	factor in con	abination with	ha fix	ed Eact	or will bring about increase in
NUA-17	output at a	n increase in	rate;	Constan	L sate and deminising sate, Ac
	we increase	the quantity	of any	one in	PUE which is combine with the
. Kaller	fixed quanti	ty of other 1	in put()	The Ma	sginal Physical Productivity of
4 *	the Vasiable	input matc	h ever	tually	decline and an are 17
	ACCUMPTION -	- 1. The Lechni	'que of	Produc	Hon is given or semain constant
ř.	2. The unite	of vasjable.	factor	are hon	nogeneous ive; equal in efficiency
	3. There are	come inputs	whose	2 9,000	tities are held constant.
3	Y. It is poo	csible to vaxy	the	PXOPOXH	on in which the various factors
	can be com	bined to prod	uce a	Product	, and the same of
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	1	1	10	10	10 > increasing m. + implies
	1	2	25	12.5	Is increasing return to a
	1	3	24	21	20 } factor
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Track.	31. 1. ·	2	72	12.4	12 Diminising M. Pimplies
41 155	1	6	78	13	6 diminising return to a
	1	7	80	11.4	2 Stackor
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	and at Day	a give all	7-8	8,7	-2 factor
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		27.12	.21		
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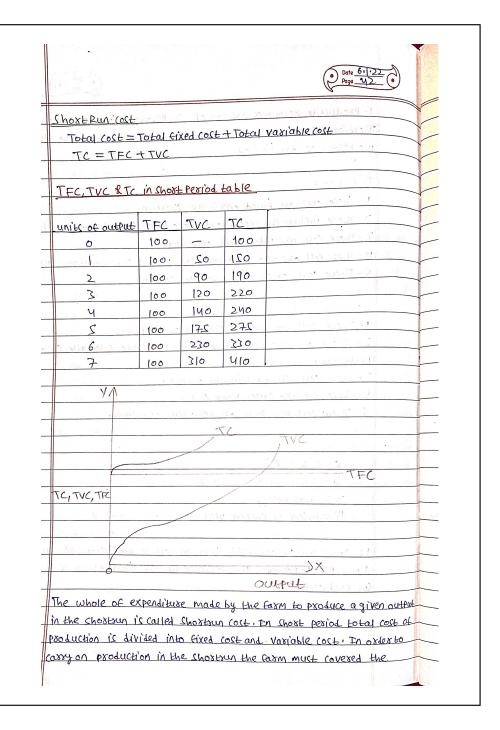


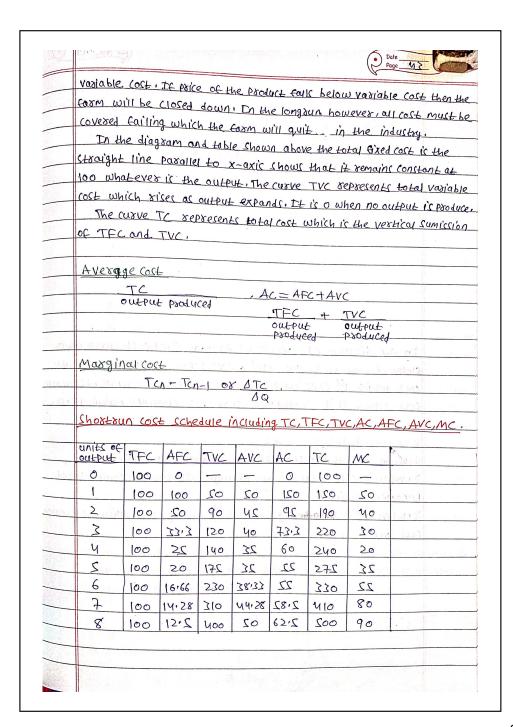


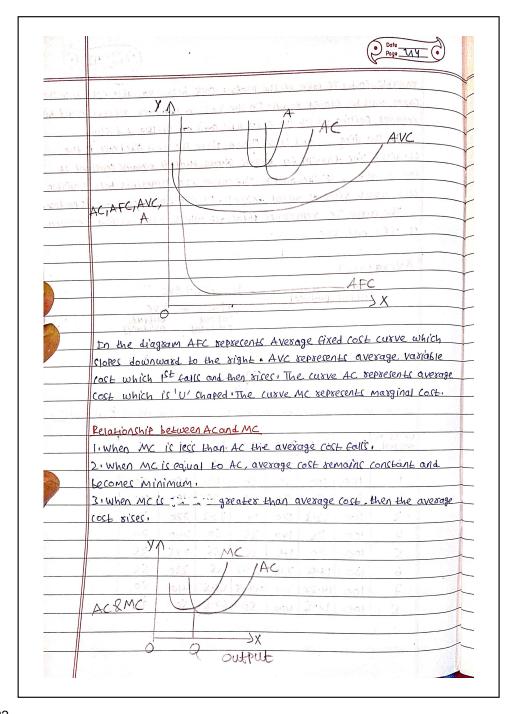


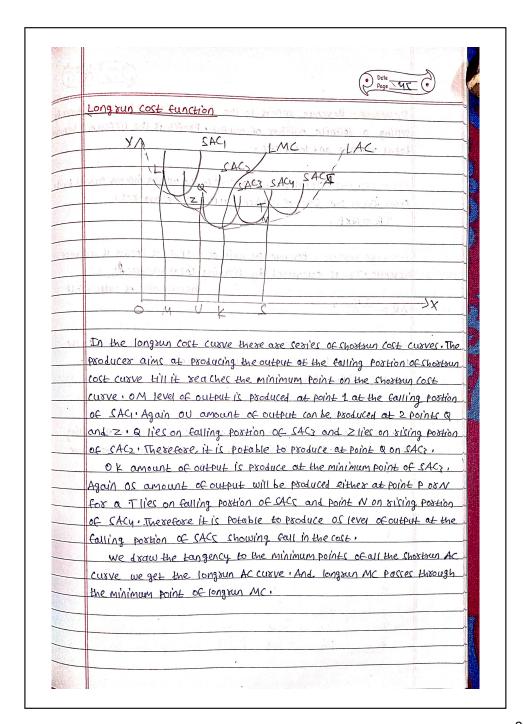


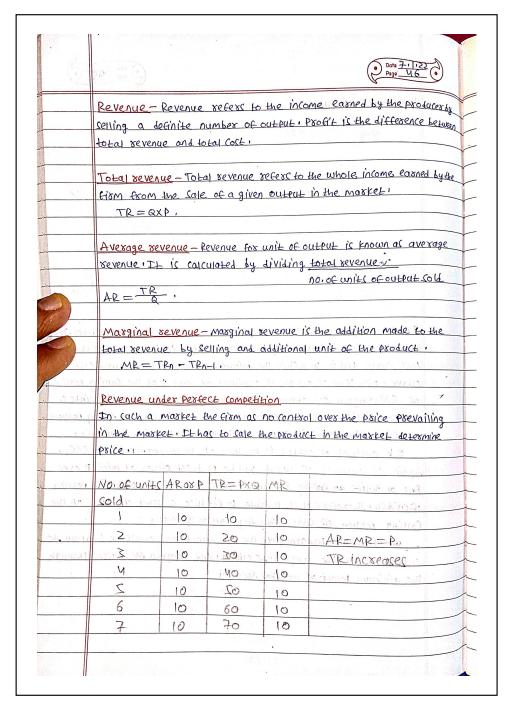
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	1- Productive resources are limited 2- resources have atternative use
	Therefore, if we produce one commodity we do not produce the other as
	the sesources are limited.
	11 less thomas as a ser one and process that the man
	Fixed cost
Tripo	1- These cost are found only in the shortrun.
	2-These include the expenditure make to the fixed factor of production
	3-There cost are independent of output.
Ų.	M-These cost are also called overhead cost or supplementary cost.
71 - 72 1 - 101	S-These cost exist at zero level output.
	ccc not and 2
	Variable cost
999	1- These cost are found in shortoun and longoun.
	2- These case the expendituse made for the use of Variable factors
54 5550	Production: Sold Old Age To
	3-These cost change with the output.
	4-These are also called Prime cost,
	S-These cost are zero at zero level of output.
	COCK FUNCTION
	$c=f(q,T,P_F)$
11	Q = Quantity of Production
1	T= Technology
	PF=prices of factors used
	It shows the relationship between cost of production and output.
	Chow the impostance to choose least cost , combination of factors
100	for production.
Mann D	The minde of experience bridge and he seems to along any
Li are	MAN LOWER THE CHARLES AND AND AND ASSESSED AS ALL CHARLES THE ABOVE THE ABOV
4.1	LANGUERON TO LEAVE OUT AND OUT ASSESSED TO MAINTENANT
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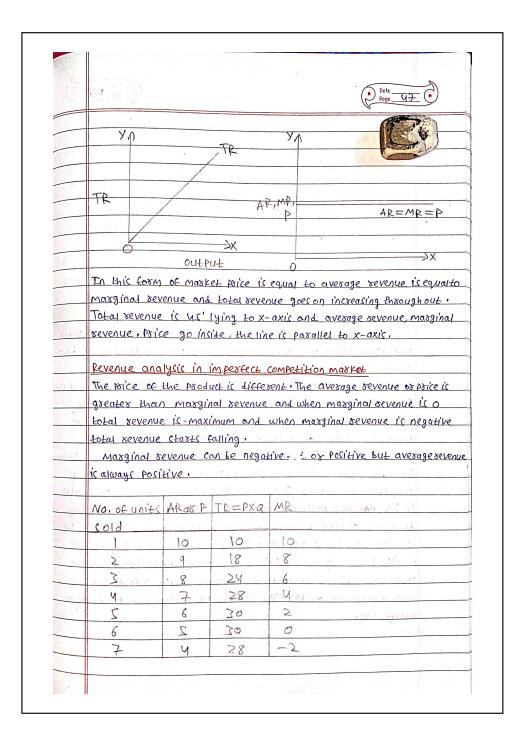


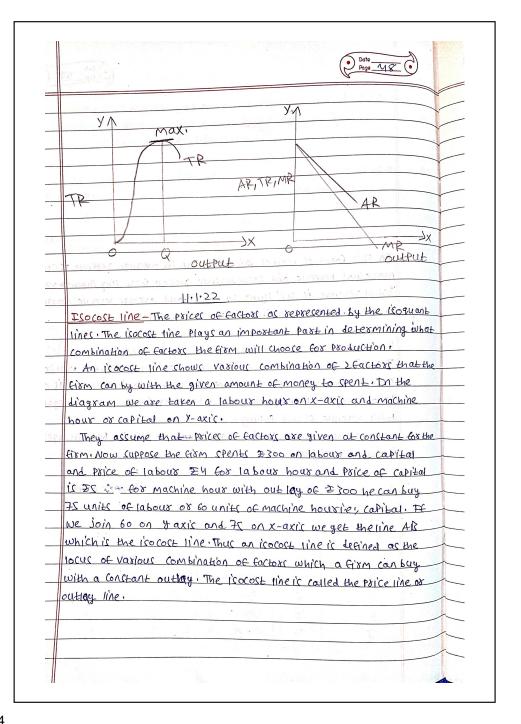


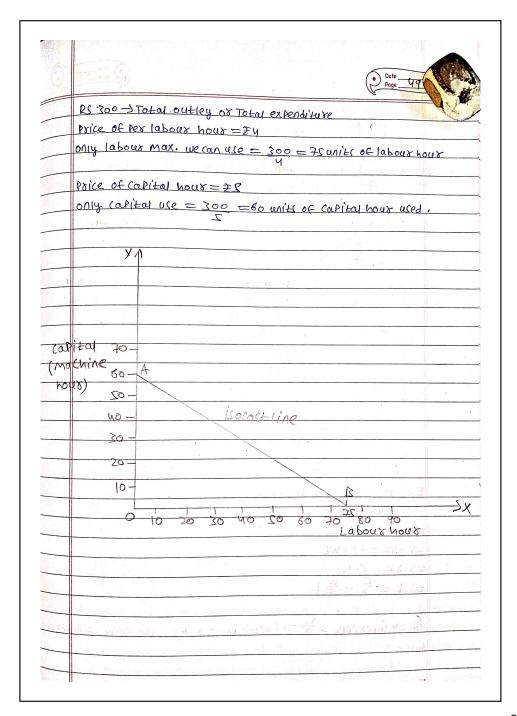


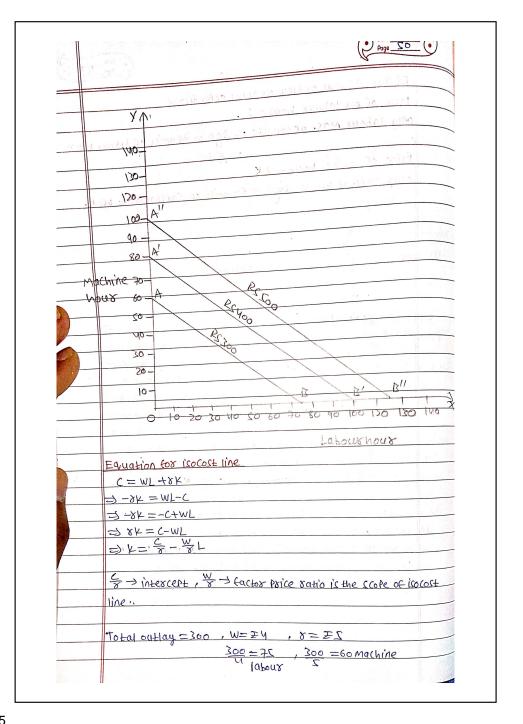


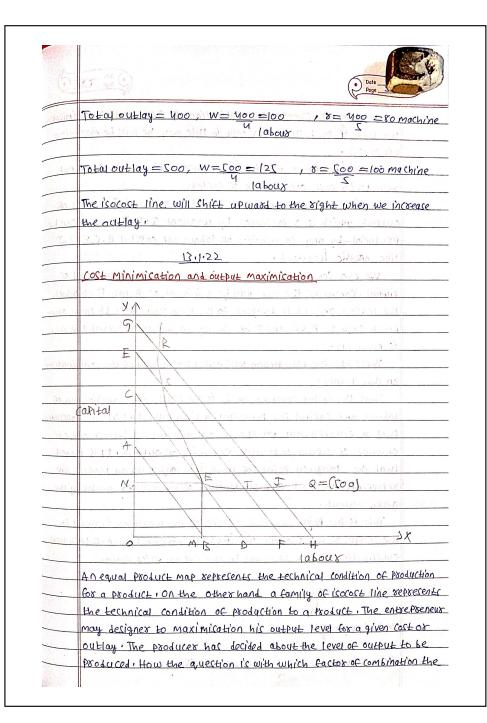


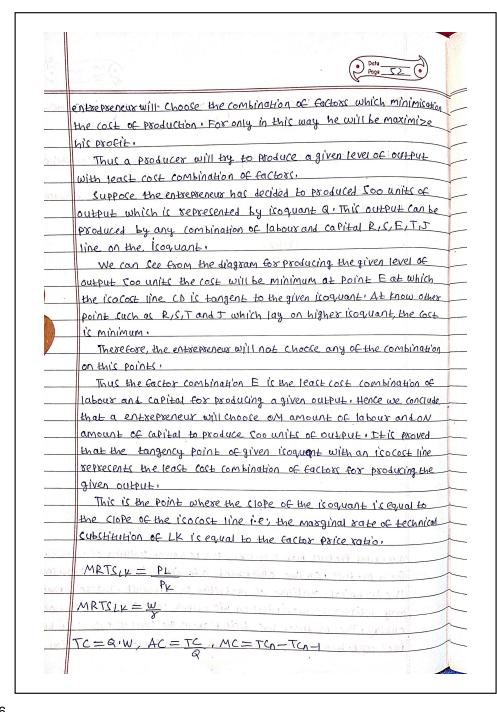






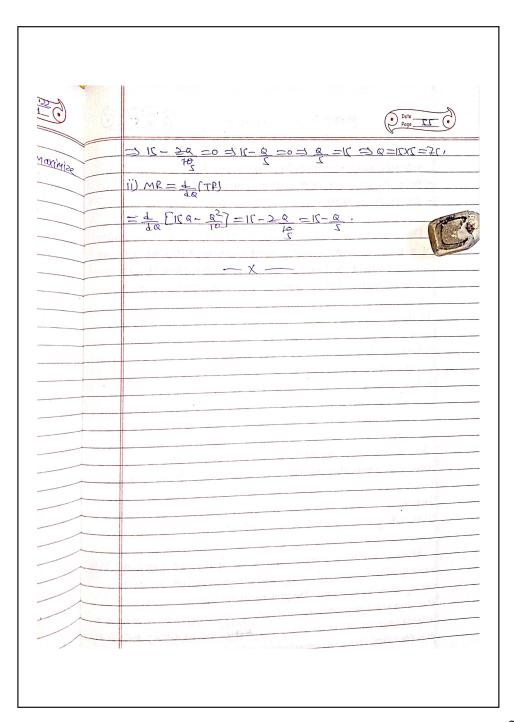




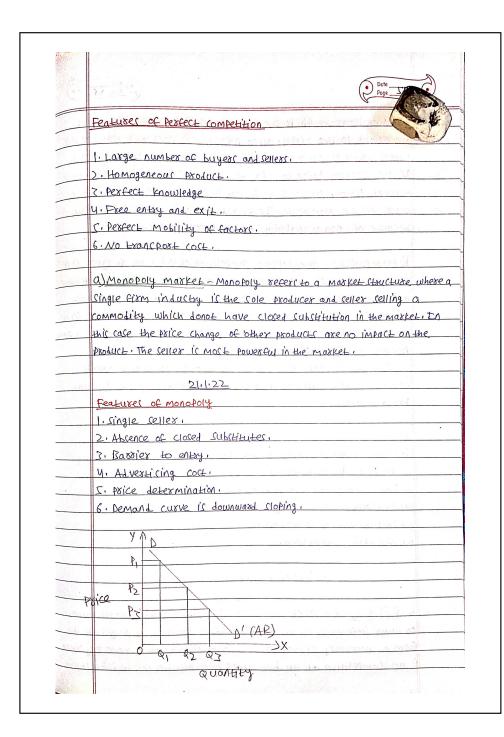


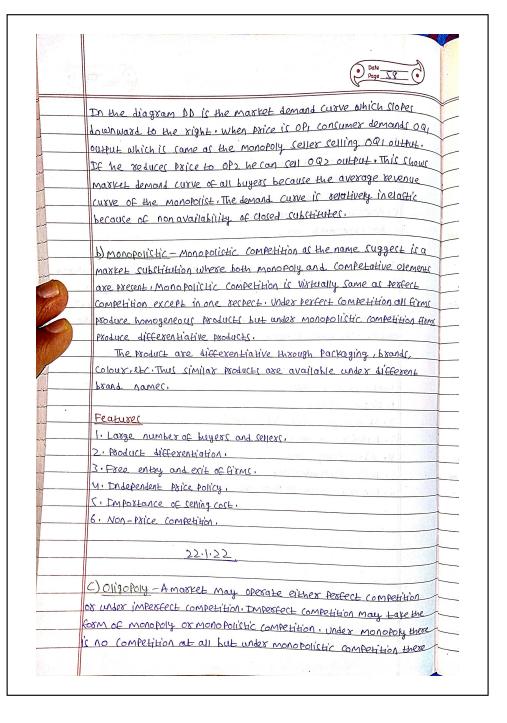
	Dote Figge \$\textstyle \textstyle \tex
	Page II
	Algebric form
Sa tearn	DIATING THE SERVICE OF THE PROPERTY OF THE SERVICE
	$TC = F(Q)$, $MC = \frac{1}{4Q}$ (TC) , $AC = TC$
	$TC = a + b a + C a^2 + d a^3$
	· · · · · · · · · · · · · · · · · · ·
	TC = TFC+ TVC
	100 00 10 10 10 10 10 10 10 10 10 10 10
81	TC = Q+6Q+CQ2+dQ2
	27 h , 2.b
	$MC = \frac{1}{4Q}(TC) = \frac{1}{4Q}(q + bQ + (q^2 + 4Q^3) = b + 2QC + 3Q^2d$.
	$AC = TC = a+bq+cq^2+dq^2 = q +b+cq+dq^2.$
	Q Q Q
	TC=a+b&+C&2
16	. 91
	MC = d $(TC) = 6+2RC$
27.	dQ
	AC = TC = Q + b + CQ
	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
	output at which morginal cost is minimum
	To find out the output at which MC is minimum we have to sea
	the 1st desivative of MC funch is equal to zero.
Christian Comment	2 17 17
	MC = 200-18Q-0.75 Q2 = -18-1.5Q
No. No.	n = 100 10 10 10 10 10 10 10 10 10 10 10 10
	$Q = 18 \times 10 = 12$
APPEN.	0)
	.15
	A SANTEN A PLANT

4	Date K 122
	Paga_TV_(
· Q.	9V - 000,002 = 4
	i) MR ii) At what price and quantity of MP = 0 iii) TRIS Marinize
0.1.1	27 abs. (31) 4 a 18. (31)
(Ans)	
	12-14
	MR = d TR
-	58 N-800007= 8 (8N-00007)= 89= 97
	i) MR = 1 TR = 1 ((C0000 a - Maz) = (C0000 - 80)
	र्वत् रेव
	(i) (0000-89 =0 3.44 A A A A A A A A A A A A A A A A A A
	≥ -8a = -50000 = 3 = 6 550
	Price = 50000-4R = 50000-4x6250 = 25000.
	iii) & (TE) =0
/	2 PN- D00002= D(BN-00002)= D9=9T
, ja	D8-00002= (59N-00002)
	TPI'S Maximised at 50000-89 =0
	= 88 = -20000 = 8 = 620.
	5 1.2 3000 -54 -0240
Q	10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000
	i) TR i)MR of remain terms or an excitations. In multiple
CLocl	ITE = PQ
(ATIS)	0 = 150 = 10
	$\frac{9-21}{01} = \frac{9-021}{01} = \frac{4}{01} = \frac{401-021}{01} = \frac{9}{01}$
	[15- 6] 0 = 150 - 92
	. (0
	TR is maximize.
	1 (TR) =0 = 1 (TQ - Q2) =0



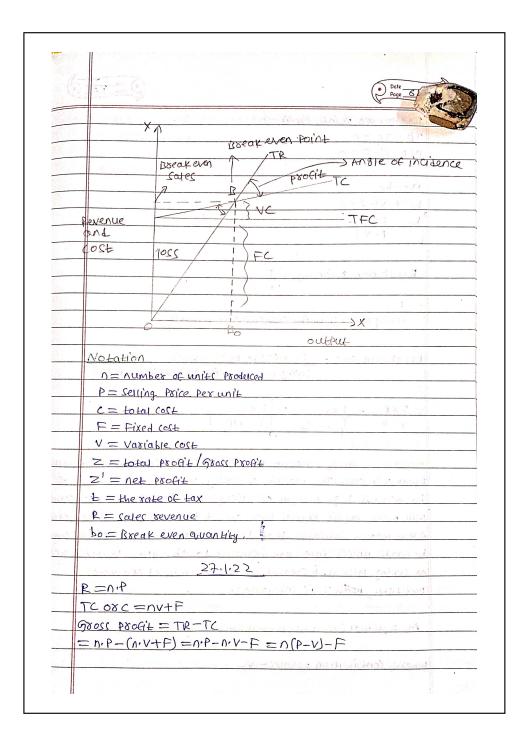
	MODULE-3 MARKET
	> Definition
	> Different types of market (it characteristics)
	-> Price determination in perfect competition
	-) Break even analysis.
	For general people market means buying and selling of commodition
3.	at a place where the market is named after the place. Thus a market at a place where the market is named after the place. Thus a market
	a lange and (offer to see a
	with one another that exchange takes place among them,
	Feature
()	- commodity
	- Buyes and seles
	- Communication bety profess and relieve
	- Paice attachment
	- Area
,	TYPEC
- 11	There are 2 type of market
11	Pexfect competition market 2. Imperfect competition market
.	TOTAL OFFICE TABLE TO THE PARTY OF THE PARTY
I	mpexfect competition market are of 3 type('-
	Monopoly b) Monopolectic C) Olizopoly.
	January January ,
	In case of pexfect competition market innumerable buyexs and selles
ha	ving full knowledge about the market substitution compact
om	themselves cox an idealist in the substitution compact
140	ong themselves for an identical product, so that price prevails in
40.00	accepts and seller in the
1100	market. The selatives strength of both buyers and sellers in the ket are equal. Individually all the Prevailing price in the
HINCO	The man profile competition sefers to the market competition
as so	me price for came thing prevail allover the market.

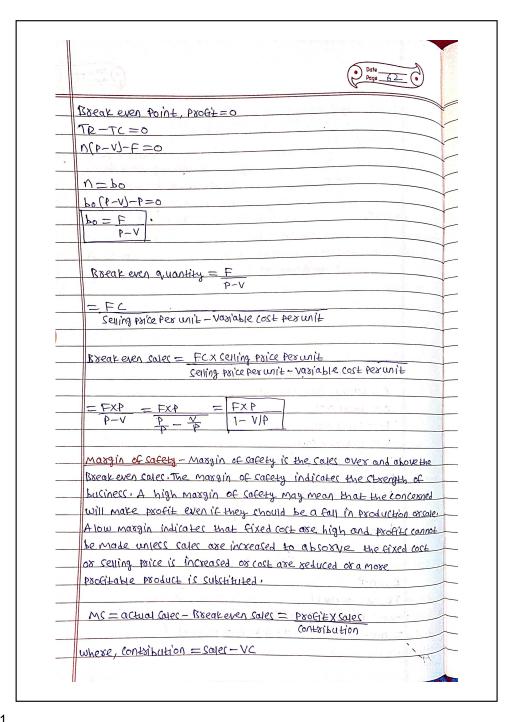




(*)	Date Page Iq O
	exists stip competition among a large number of Girms producing
	Clother substitutes. In between monopoly and monopolistic competition
	these is a thirt form of market known as oligopoly. Oligopoly means
Trail	few sellers as the result the price output policy of one affects the
	others. Thus we can define oligopoly as a market structure where few
closin	Sellers compete with each other and each controls a significant postion
	of market show that Price output Policy one affects the others.
12 12	224 store telephones work the navier one was at the explicit
- pride	Features of oligopoly
	1. Few large cellers,
. A.	2. Large number of buyer(, 1 1 man mill and 1 11
And a v	3. Interdependence.
Syral \	y. Impostance of selling cost and advesticing,
100	S. Competition.
West.	6. Group Lehoviour. Le mallale de la maria al mi
-	7. Indefinite demand curve.
	Topics in malife de colonia in a colonia de de colonia de la colonia de
	1 5 1 1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1
1.65	Break Even Analysis
76.1	La source de america de la forma de mentale de la constantificación de la cons
Jan 1	TR=TC] > Break even toint
100-05	TRATE = Profit
5.38613	TRZTC = locc & the latest area soldered about 4 hay book and
Yes	we know that,
Ben (TC=TFC+TVC
an)	TR=PXQ
Balling .	Break even Point or quantity
Series -	TR=TC.
3/3/2	PX QBEP = TFC+TVC
16 m	PX QREP = TFC+AVCX QBEP as bounces story yield and
-do 1	QBEP-AVCXQBEP=TFC 100 1200 1200 1200 1200 1200 1200 1200

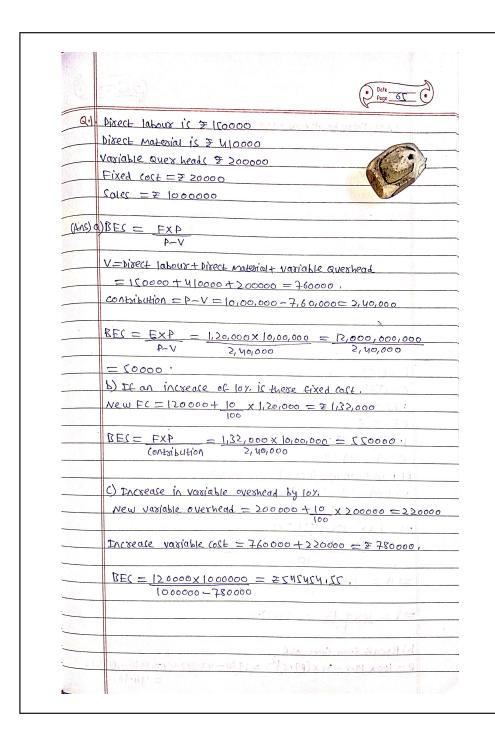
'QBEP = TFC P-AVC Break Even Analysic or it is also called Profit contribution analysis is an impostant technique used to study the selationship beth the total cost, total sevenue and total prosit and losses over the whole sange of Stipulated output. It integrates the cost and sevenue estimates to know the Profits and losses associated with different level of output. Break Even Analysis basically is concerned with finding the Point at which bevenue and cost ase equal. The Break Even Point is therefore the volume of output at which either the Arcfit is made nor a lock is incurred . In other worsh the Break Even Point is that level of saler volume at which there is neither profit nor loss. The main objective of Break Even Point is to find the cut off production volume from where a firm will make Profit. Break Even point can be studied in different ways! 1. Linear break even point 2. Non-linear break even point 1. Linear break even point - The break even point R occurs at the intexcection of total cost and sevenue line. Break even point is that level of calls of production at which the calls revenue is exactly equal to total cost both vasiable and fixed cost. Roeak even point is that level of activity at which the firm neither earn salling profit nor suffers any loss. It is that point at which the contribution by a Product just covers fixed cost. The vertical distance bet revenue line and the total cost line indicates a profit to the sight of B and a loss to the left. The angle of incidence is the angle bet sayes and to tay cost line. This angle formed at the point of intersection of the sales and total cost line indicates the Profit earning capacity and at cuch the wider the angle the greater is the Profit and vice vexca.

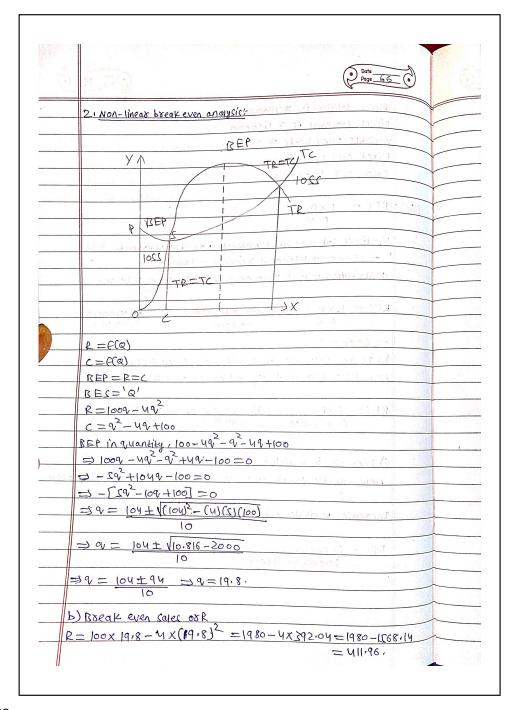




: 6	Dote Page 63 C
	Contribution lunit = Selling Price perunit - VCPer unit
	We all of late = WE x100
	$WC = \overline{6806.7}$
W.	PIV -> Profit - Volume ratio
	Plv = sales - VC x 100
	MS = Profit + Contribution = and
	Relationship between BEP&Plv ratio
	BEP(sales volume) = FC
1.	FC = \(\gamma \) 20,00,000
	$VC unib = \Xi 00$
	Selling price/uniz = 2200
	a) BE sales Quantity = F = 20,00,000 = 20,000 units
	b) BE sales = EXP = 20,00,000 x200 = 7 40,00,000
	() Find out the contribution and margin of catety if the actual exoduction quantity is 60,000 units.
	Q = 60,000 mit
	Containulaion = Sales -VC
	$P.Q - V.Q = Q(P-V) = 60,000(200-100) = 60,000 \times 100$
	= £ 60,00,000,
	d) MS = Sayer - REsayer = 200x60,000 - 40,00,000 = \$80,00,000
	e) Profit = (ontailution - FC = 60,00,000 - 20,00,000 = 760,00,000
2.	Calculate the BEA from the following information
	FC== 75,000, Sales= = 3 lakks, Livect material cost= = 1/19

	Date Page 64 6
	disect labous = \$ 60,000, disect expense = \$ 40,000
(ANS)	FC = = 75,000, cales = = 3,00,000
	Direct material cost = I (00,000)
	Direct Ighour = \(\mathbb{E} 60,000 \)
	Direct expense = E 40,000
	3, 2,00,000
	$REP(in cales) = \frac{F \times P}{P - V} = \frac{75,000 \times 3,00,000}{3,00,000 - 2,00,000}$
	P-V 3,00,000 - 2,00,000
	= 225,000,0000 = \(\frac{5}{1},\psi_000
	Contain ution = S-VC = 3,00,000 - 2,00,000 = 1,00,000
	Progit = contribution - FC= 1,00,000 - 75,000 = 25,000.
	28.(1.22
	Selling price per unit = = 50
7.1	Variable (ost per unit = = 90
	FC=> 60,0000
	Q) IF REP is 8000 mile and 1911
	So, what is the Price
15.01	BEQ = F
	$\Rightarrow 8000 = \frac{60,0000}{P-90} \Rightarrow (P-90)8000 = 60,0000$
	=> 0000 = P-90 = 0000000 = P-9000000000000000000000000000000000000
	8000
	b) color sequered to eash profit #2,20,000
o wi	= FC+ decised Profit = 600000+220000
. 61100	(onthibitation per unit 150-02) = 622000 = 622000
7	= 13667 units.
	Section of the same of the second of the sec
1701	The state of the s



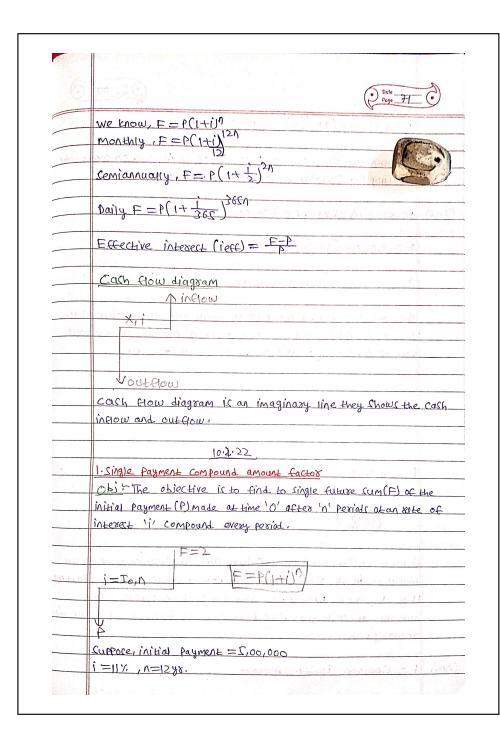


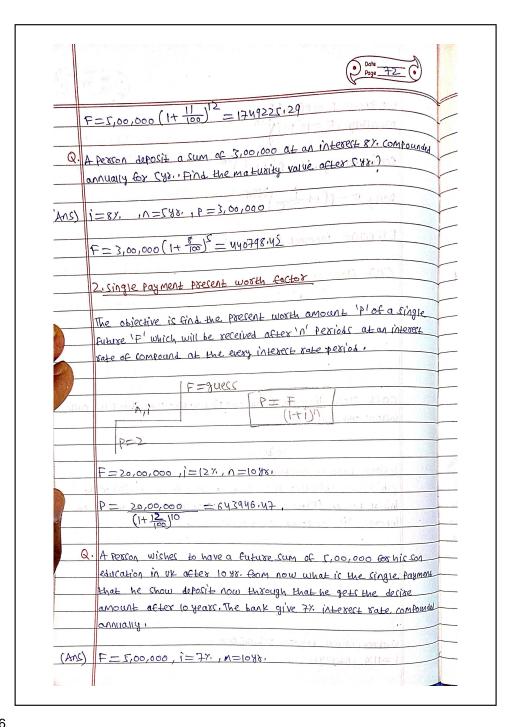
(0)	Delte Pro
	Conditions for profit maximisation
	In order to find maximum profit we have to define the profit
	funch It.
	MER-C.
	The 1st order condition of profit maximisation is & (IT)=0.
0	2nd object condition is d2 CET/10.
	2nd oxtex condition is $d^2(\Pi) \angle O$.
	R=1009-492
	$c = \sqrt{-49 + 100}$
	T=R-C
ALC: N	= 1009-492-92+49-100
	= 1042-592-100.
	The 1st oxdex condition is
	A CH = 0 7 d (1019 - 50 ² - 100) = 0
	TO 20 = 0 = 0 = 0 = 0 = 0
N.	= 104-109=0= 9= 104 = 1014,
A.	
	The 2nd oxdex condition is,
9.00	1 (104-109) 10 = 0-10=-1020.
	4a (100) 10 20 20 10 21 10 21
	So, the firm Profit Maximizing output
	a = 10.4 mits
	max.(I) = 1009-503-100 = 100x10.7-1x(10.4)-100=== 444
ity kee	11.10. 10. 10. 10. 100 100 100 100 100 1
2.	R=1009-492
	TO DYO
7/5	$TR = PXQ$ $P = \frac{TR}{Q} = \frac{1009 - 49^2}{9} = 100 - 49$
No.	Q 9
	100 100 20 100 100 100 100 100 100 100 1
i i i	P=100-49 P=100-4x10,4=258,40.

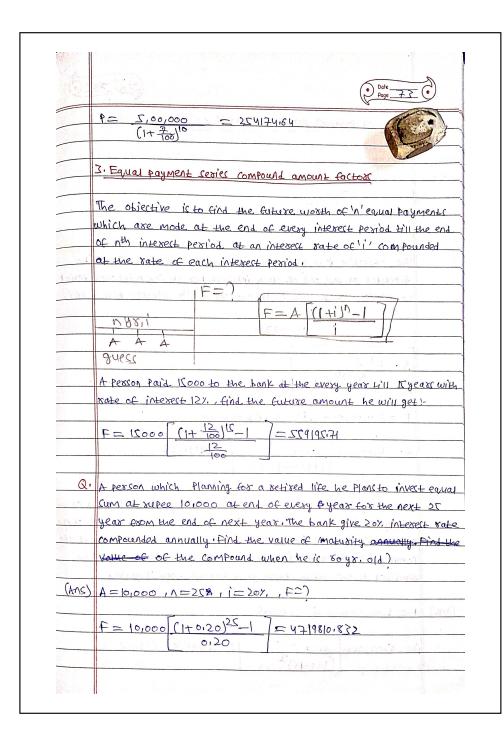
From the following information Cales = $\pm 20,000$ Variable cost = $\pm 10,000$ Fixed cost = ± 6000 Cales $\pm 20,000$ ± 1000 ± 100	4.7	Date Page 68
Cales = $\pm 20,000$ Variable (ost = $\pm 10,000$ Fixed cost = ± 6000 Pind a) PIV ratio b) BEP C) MS (Ans) PIV ratio = Cales - VC × $100 = 20,000 - 10000 = 50$. BEP = $F = 6000$ = = 6 = 0.6. P-V 20,000 - 10,000 MS = Profit × Sales (ontribution = P-V = $20,000 - 10,000 = 10,000$. Profit = $(0,000 - 6000 = 10000)$ MS = Profit × Sales = $(0,0000)$ MS = Profit × Sales = $(0,000)$ MS = Profit × Sales = $(0,000)$ MS = Profit × Sales = $(0,000)$ Contribution $(0,000)$ PC = $(0,000)$ $(0,000)$ Pind a) (ontribution b) Profit c) BEP d) MS	\.	From the following information
Fixed coct = \$ 6000 Pind a) PIV 80410 b)BS P C) MG (ANS) PIV 80410 = COLECTUC X100 = 20,000-10000 = 50. BEP = F = 6000 = 6000 MG = Profit X (0126) (ontain bution Profit = Contain bution = FC (ontain bution = P-V = 20,000 - 10,000 = 10,000 = 10,000 Profit = Contain bution = FC = 10,000 - 6000 = M000 MG = Profit X (0126) = 4000 X 20,000 = 8000. Contain bution = 10000 2. Colect = \$ 2,40,000 FC = \$ 50,000 VC = \$ 76,000 Pind a) (ontain bution b) Profit () BEP d]MG		
Find a) PIV 80410	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	vasiable cost = 210,000
BIBSEP C) MS		Fixed cost = 7 6000
C) MS (ANS) PIV satio = $\frac{\text{Cales-VC}}{\text{Sales}}$ $\frac{\text{Zoooo-10000}}{\text{Zolooo}} = \frac{\text{Zo}}{\text{Zolooo}}$ BEP = $\frac{\text{F}}{\text{F}} = \frac{6000}{\text{Containbution}} = \frac{6}{10} = \frac{1000}{10}$ MS = $\frac{\text{Profit}}{\text{Containbution}} = \frac{6}{10} = \frac{1000}{10}$ Profit = $\frac{\text{Containbution}}{\text{Containbution}} = \frac{6}{10} = \frac{10000}{10}$ Containbution = $\frac{10000}{\text{Containbution}} = \frac{100000}{\text{Containbution}} = \frac{100000}{\text{Containbution}} = \frac{1000000}{\text{Containbution}} = 1000000000000000000000000000000000000$		Pind a) Plv ratio
(Ans) PIV satio = $\frac{\text{Cales-VC}}{\text{Sales}} \times \frac{100}{20,000} = \frac{20,000-10000}{10000} = \frac{50}{20}$. BEP = $\frac{1}{10000} = \frac{1}{10000} = \frac{1}{100000} = \frac{1}{10000} = \frac{1}{10000} = \frac{1}{100000} = \frac{1}{1000000} = \frac{1}{1000000} = \frac{1}{1000000} = \frac{1}{1000000} = \frac{1}{100000000} = \frac{1}{100000000} = \frac{1}{100000000000} = \frac{1}{10000000000000000000} = \frac{1}{10000000000000000000000000000000000$		3 JACK CONTRACT TO MAKE TO STATE OF THE STAT
BEP = $F = 6000$ P-V $20,000 - 10,000$ M(= $PxoGit \times GaleG$ Containbution = PC Containbution = PC Containbution = PC Containbution = PC $PxoGit = Containbution - PC$ P		C) MS
BEP = $F = 6000$ P-V $20,000 - 10,000$ M(= $PxoGit \times GaleG$ Containbution = PC Containbution = PC Containbution = PC Containbution = PC $PxoGit = Containbution - PC$ P		Lagra - Fa
BEP = $F = 6000$ P-V $20,000 - 10,000$ M(= $PxoGit \times GaleG$ Containbution = PC Containbution = PC Containbution = PC Containbution = PC $PxoGit = Containbution - PC$ P	(Ans)	PIV 8040 = <u>Cales-VC</u> x100 = <u>20,000-10000</u> = 20.
$M(S = PSOGIE \times SARS \\ Contai bution$ $PSOGIE = Contai bution = FC$ $Contai bution = P-V = 201000 - 101000 = 1010000 = 101000 = 101000 = 101000 = 101000 = 101000 = 101000 = 10100000 = 10100000 = 10100000 = 10100000 = 10100000 = 10100000 = 10100000 = 10100000 = 10100000 = 10100000 = 10100000 = 10100000 = 101000000 = 101000000 = 101000000 = 1010000000 = 10100000000$		7.4.7
$M(S = PSOGIE \times SARS \\ Contai bution$ $PSOGIE = Contai bution = FC$ $Contai bution = P-V = 201000 - 101000 = 1010000 = 101000 = 101000 = 101000 = 101000 = 101000 = 101000 = 10100000 = 10100000 = 10100000 = 10100000 = 10100000 = 10100000 = 10100000 = 10100000 = 10100000 = 10100000 = 10100000 = 10100000 = 101000000 = 101000000 = 101000000 = 1010000000 = 10100000000$	×	BEP = 6000 0000
Contribution Profit = Contribution - FC Contribution = P-V = $201000 - 101000 = 101000$. Profit = Contribution - FC = $101000 - 6000 = 10000$ MS = 10000000 MS = 1000000000 Contribution 100000000 PC = 100000000000 PC = $100000000000000000000000000000000000$		
Profit = containbution = FC Containbution = P-V = $201000 - 10,000 = 10,000$. Profit = $Containbution = FC$ = $10,000 - 6000 = 10000$ MS = $10000 = 10000$ MS = $10000 = 10000$ Containbution 10000 2. Cale(= $10000 = 10000$ FC = $10000 = 10000$ VC = $10000 = 10000$ Pind a) (ontainbution b) Profit c) BEP d/M()	MS = PSOGIF X Sales
Containbution $=P-V=201000-101000=101000$. Profit $=Containbution-FC$ $=101000-6000=10000$ MS $=Profit \times SaleC = 4000\times20,000 = 8000$. Containbution 10000 2. SaleC $=E2,401000$ $FC = E501000$ VC $=E751000$ Pind a) (ontainbution b) Profit c) BEP d/MC		
Contain but ion $= P - V = 201000 - 101000 = 101000$. Profit $= Contain but ion - FC$ $= 101000 - 6000 = M000$ $MS = Profit \times SaleS = 4000 \times 201000 = 8000$ Contain but ion 10000 2. $CaleC = E 2, 401000$ $FC = E 501000$ $VC = E 751000$ Pind a) (ontain but ion b) Profit c) BEP d/MC)—	
Profit = contribution - FC = 10,000 - 6000 = M000 MS = Profit x sales = 4000 x 20,000 = 8000. Contribution 10000 2. Sales = £ 2,40,000 FC = £ 50,000 VC = £ 75,000 Pint a) (ontribution b) Profit c) BEP d/Ms	/	CONTRIBUTION ZP-V.
Profit = $contaibution - FC$ = $lo,000 - 6000 = M000$ $MS = Profit \times SaleS = M000 \times 20,000 = 8000$ Contaibution $lo000$ 2. $SaleS = E 2, 40,000$ $FC = E S0,000$ $VC = E TS,000$ Pint a) $contaibution$ b) Profit c) BEP d)MS		(anhitution = P-V=)01000 = 101000 = 101000.
		l ·
MS = PXOGIEXSOURCE = 4000X20,000 = 8000. $Contaibution 0000$ $FC = E 2,40,000$ $VC = E 75,000$ $Pind a) (ontaibution b) ProGie c) BEP d/M($	1.	
2. Sayes = £ 2, 40,000 FC = £ 50,000 VC = £ 75,000 Find a) (ontribution b) Profit c) BEP d)Ms		- Committee of the control of the co
FC= = 50,000 VC= = 75,000 Find a) (ontxibution b) Profit c) BEP d)M(
FC= = 50,000 VC= = 75,000 Find a) (ontxibution b) Profit c) BEP d)M(2.	Con 100 - 72 110 000
VC = 75,000 Find a) (ontailbution b) Profit c) BEP d)MC		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Find a) contribution b) Proofit c) BEP d)MC		
A see of a see or at a fi		
(ATB) (W) P-V= 2100000-72000-17021000	(Ans)	000,23,1=00027-000,0N,5=V-9 (D
b) contaibution -FC = 1,65,000-00,000 = 1,15,000		The state of the s
6505050.0 = 600.23010		

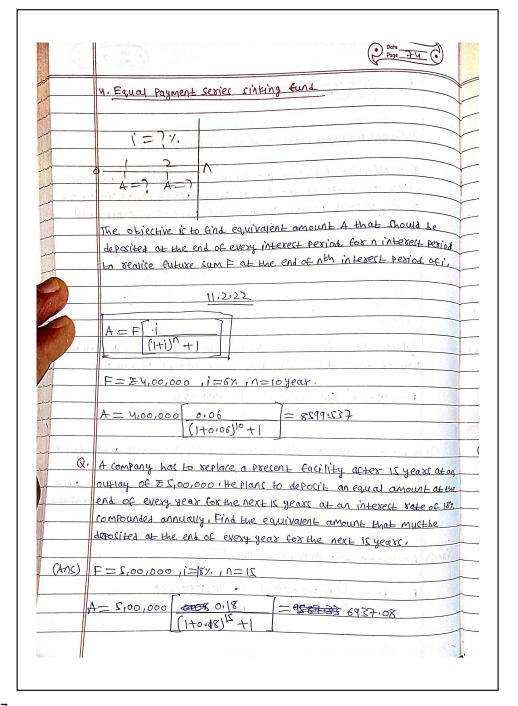
	Date Page 69
	d) MC = Profit x sales = 1,15,000 x 2,40,000 = 167272,7272.
	and of the off of more appropriate and a series
	8.2.22
	Time value of money
	- Simple interect and compound interect
	- Different formula for calculation of time value of money.
	- Different Project evaluations
	- DePreciation.
	7.00
	The time value of money says the Purchasing Power of money ato
	Pasticular Pexiod of time known at time value of money. A
	Single outer today a more valvable than a super a earn hence,
	There are several section for this!
	1. Individuals in general Preformed current consumption to future
	COMSCIMPTION.
	2. Capital can be employed productively to generate Positive
	2. In an implementary period a super today represents a greater
) . 	seally purchasing Power than a superin future.
	U. since money has earning as well as purchasing power money
	hal time value.
	and the second of the second of
	Simple interest
	P=1000, 1=10%, n=3yeax
	S. I = PXIXA . Death of the second
	1st year = 1000 x 10 x1 = 100
	MA SARALIN
	2 nd year = 1000 x 10 x1 = 100
	STATE OF MELSING STREET
	28d year = 1000 x 10 x1 = 100 mmm white and

	Page 10
	$Tht = 300$ $F = P + I = 1000 + 300 = 1300 (1 + \frac{10}{100} \times 3) = 1300$ $F = P + PIN = P(1 + In) = 1000 (1 + \frac{10}{100} \times 3) = 1300$
	F=P+I=1000+300=1300 (1+100 x3)=1300
	F=A+PIN=P(1+In)=1000
	LAN SE NOW
	Compound interest
	$P = 1000, \hat{i} = 10\%, \Lambda = 3\%eass$
	THE MAN DO SHARE MAIL AS DOLLARDS
	1st year
	I=PIN=1000 X 10 X 1=100
	2nd year
	P2=P+D=1000+100=1100
1	$\Box = 100 \times 10 \times 10 \times 10$
	- 3131 CV (STATE) - 312 TENER
	25d year man annua hannan hannan par 21 - Levil ptil
	P3 = P2+ I2 = 1100+110=1210
	$L = 2 0 \times 0 \times = 2 $
	·) hand
	Total C. I = 100+110+121 =33)
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-	
	Notations
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\vdash	V = No. of heave
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	A = Anddied
	9 = Linear Gratience ceries
	9 = Geometric gradience ceries
\vdash	F = Feature amount



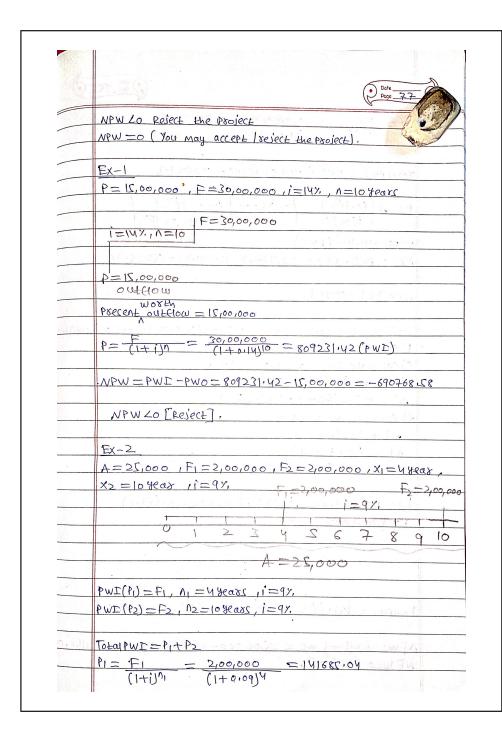


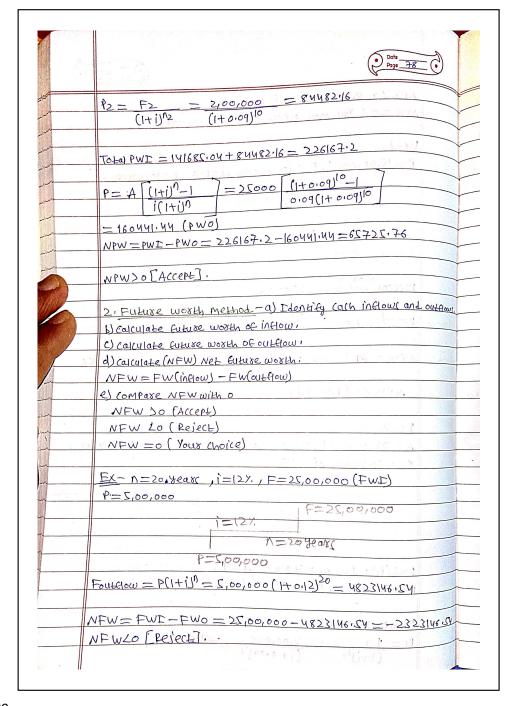




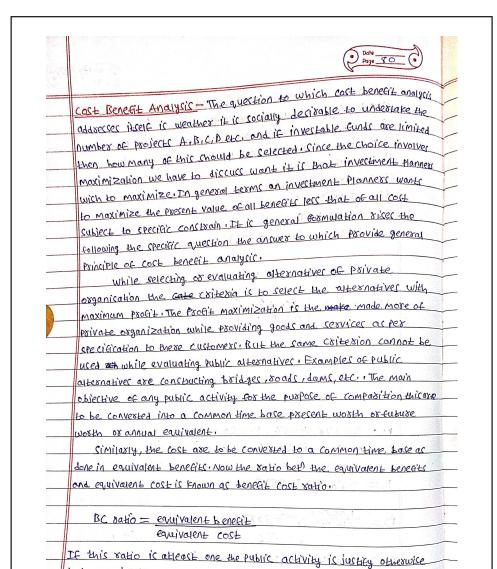
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	S. Equal payment series present worth factor
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	The objective here is to find the present word of an equal payment
	made at the end of every interect period for nat an interest rate
	of i compounded at the end of every interest period.
	Po Alcording
	$P = A \cdot (1+i)^n \cdot (1+i)^$
iod	A=1,00,000, i=9x, n=14
1.	N = (100,000 /1 = 47, N = 14
	P= 1,00,000 (1+0.09) 14-1 = 778615.02885.
	P= 1,00,000 (1+0.09) 14-1 = 778615.03885,
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Ann.	Company to have an annual equivalent amount to of employed \$20,00,000 for the next 20 years towards its employed welfare
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Area Area	Company to have an annual equivalent amount to of employed \$20,00,000 for the next 20 years towards its employed welfare
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Q.	A Pexcon has taken a loan of 2 20,000,000 within loyeast integers
	want to repay a loan in equal aviour
	onte of 11%, Find the value of A
(Ans)	P== 20,00,000, n=10 years, i=11/1
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	(1+0.11)10-
	2 Company to Puxchaco
Q	The state bank of India gives a loan to a company to purchase a machine tixth = 5,00,000 at an interest rate of 12% compounded
<u> </u>	annually. This amounts should be sepay in to yearly instalment.
	annually, This amounts should be serry in to occur in the
SMOON	I was a superior of the last
/	Find the instalment amount that the company should paid to the bank.
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(Ans)	Find the instalment amount that the company should para to the bank.
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(Ans)	Find the inctalment amount that the Company should part to the tank $P = \Gamma_{100,000}, 1 = 2 \times 10^{-10} 1 = 88492.08$ $A = \Gamma_{100,000} \left(0.12 \right) \left(1 + 0.12 \right)^{10} = 88492.08$
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(Ans)	Find the inctalment amount that the Company Should Para to the Early $P = S_{100,000}, 1 = 2\%, n = 0 \text{ years}$ $A = S_{100,000} \left(0.12\right) \left(1 + 0.12\right)^{10} = 88492.08.$ $(1 + 0.12)^{10} - 1$ $12.2.22$
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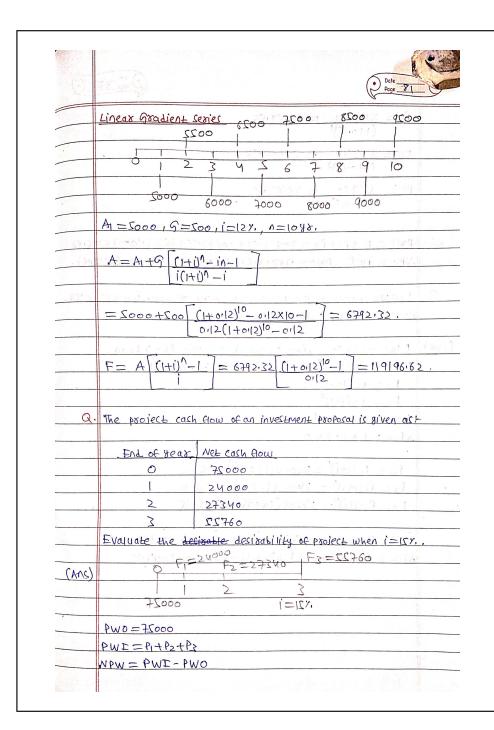




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	3. Annual equivalent worth (AEW)	1972 with a conservation of the
	a) Identify (ash inflow and cash out	How: The Market Mark
	b) calculate the precent worth of inflo	ow and outflow.
		M Sr Har a hard hard
	d) Evaluate AEW.	wind the newspaces
	e) COMPASE AEW with 0.	Constitution of the state of
	if AEW > O (accept)	
	AEW LO (reject)	· cost of tool ha
	AEW = 0 (your choice)	No. 525 5 M paicents/
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Tows.	AEW = NPW i(1+i)	Sar. Living manifestation
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	$P_1 = \Lambda = 2 \% \text{ , } i = 5\% \text{ , } F_1 = 50,000$	
	$P_2 = \Lambda = 1/8$, $i = 1/2$, $F_2 = 1/00/000$	
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	NPW = PWINGLOW-PWOULFLOW = 127621.7	1 - 1,20,000 = 7621.71.
4	AEW = NPW i(1+U) = 762171 0.02	(1+0,00)47-2149,41
	$(1+i)^{n}-1$	ncs)4-1
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124		
	P1 = 24000 = 20869.56	_
	P1 = 24000 = 20869.56 (1+0.15)1	_
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	(1+0,15)2	_
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	PWI=P1+P2+P3=20869.56+20672.96+36662:10=78205.6	~
	NPW = PWI - PWO = 78205.62 - 75000 = 3205.62 Caccept)	<u>, </u>
	The sol of 24xC. Intexpet is in	· v
Q.	Future morth of the Project at the end of 34x5, interest is 15	<i>"</i> .
	came as above table and same value.	
(Ans)	FWO=25760 , Po=75000, P1=24000, P2=27340	-3.1
(7,113)	\$. Fo = Po(1+1) ⁿ = 15x, n=0,1,2	100
	$F_1 = P_1 (1+i)^N$	
	$F_2 = P_2 (1+i)^n$	
	FWI = Fot Fit F2 in the same and the answer and the	
	NEM = EMI-EMO	
	0002 = 0(11)) = 75000(1+0+1) 0 = 07	
	$f_0 = P_0(f(t) ^2 = \frac{1}{2}000(f(t) t)) = \frac{1}{2}0000$ $F_1 = P_1(f(t) ^2 = \frac{1}{2}0000(f(t) t)) = \frac{1}{2}7600$	
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	Date 18,272
_	Depoeciation
	- Definition
	- Causes of Depreciation
	-Method of Calculating-depoliciation
	Depreciation is the loss of value of the physical accept used in product whenever any machine or equipment performs useful work we undergoes some wear and tear which can be minimized to some extend by proper care and maintenance . But it cannot be total prevented. It efficiency should be reduced with the lacks of time and at one point at time it becomes uneconomical to be used further and needs replacement by another new unit. Therefore we can say that efficiency and the value of machine or accept confrontly reduces with the lacks of time during use which is known depreciation. So come money must be sent assign yearly from the profit. So that when the equipment becomes uneconomical it can be replace by the new one. The money which is deducted yearly is called depreciations.
	Eund or sinking fund.
-	

-	19.2.22 meaning at the fine and in
	Causes of Depreciation
-	200 mm 1 201 20 10 10 10 10 10 10 10 10 10 10 10 10 10
	1-Principal depreciation-It is a known fact that when any
- ,	machinery Performs work we've and tear of Certain components
	takes Place. Although sufficient Precaucions are taken, for example
	Proper lubricating, and cooling is done which minimize wear
Lon	and bear but cannot be totally prevented, so the cost of
240	replacement because of this is the value of depreciation duet
SINIE	wear and bear, and all the same and a supplied property local
<u></u>	is not been a decrementalis in resolutions than they me
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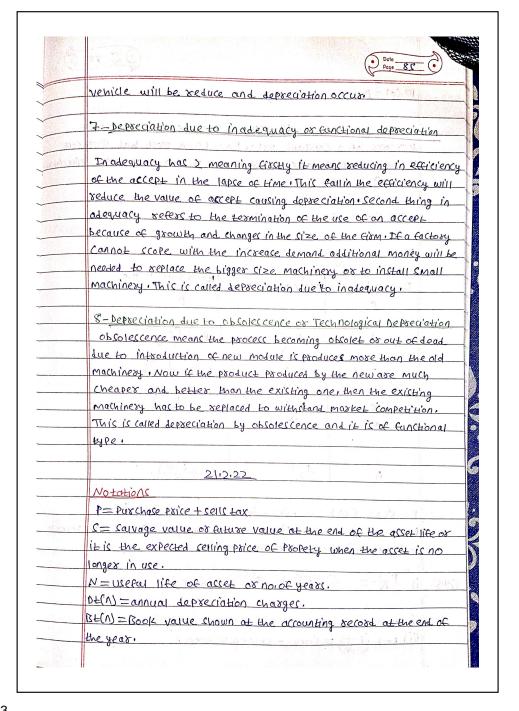
2- Depreciation due to physical decay - There are Certain items in a factory (uch as insulation of materials, Eurnituse, electric cables, Poles, buildings, chemical vessels which get decay because of climatic and atmospheric effect, with the result the value of this articles goes on reducing with the lapse of time. Although elegations is made by the owner to keep them in Serviceable condition. Even then because of climatic and atmospheric effect therewill reducing in their cost. This reducing in cost is called depreciation due to physical decay.

3-Time factor—There are certain accept with have fixed legal period of time such as lease, fatents writes and copy arrites which use there value after his liketime. This is the defresiation due to time factor.

M-Depseciation due to accident or sudden failuse — An accept may reduce a value because of leading of an accident although the machine might have been installed a few days back and sufficient case is taken to prevent accident even then accident's may occur due to some wrong operation or for some defective components which result in heavy damage so the depsecration in machine due to this is called accidental depsecration.

S-Depreciation due to depletion-some accept like mines, a uassies and oil well are of wasting character perhaps due to extraction of raw materials from them this cause depreciation

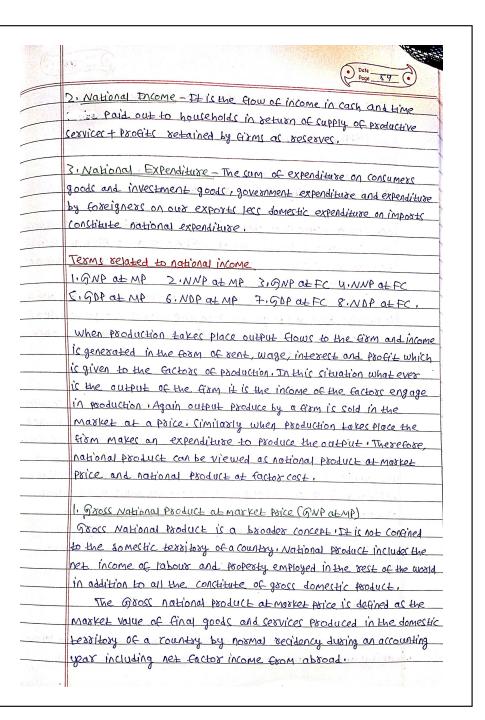
6-Depseciation due to decressed maintaince and neglect Every manufactures curplier certain instruction for the smooth and efficient bunning of an equipment. Now if there instructions are not properly followed because of neglect and if proper maintaince is not done as becommended by manufacturer then the value of

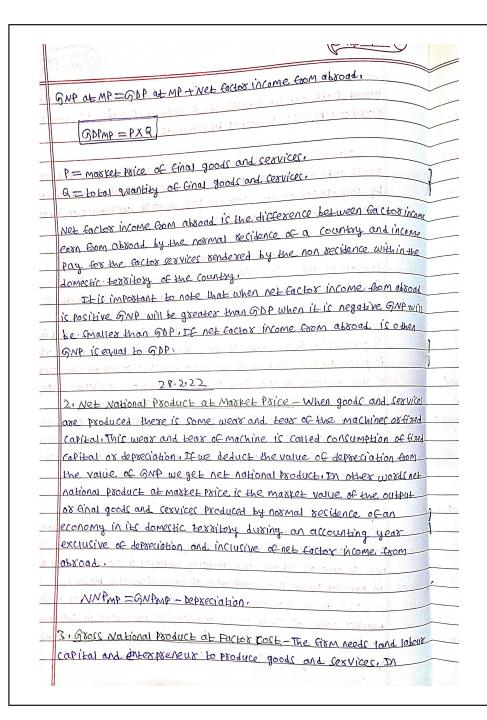


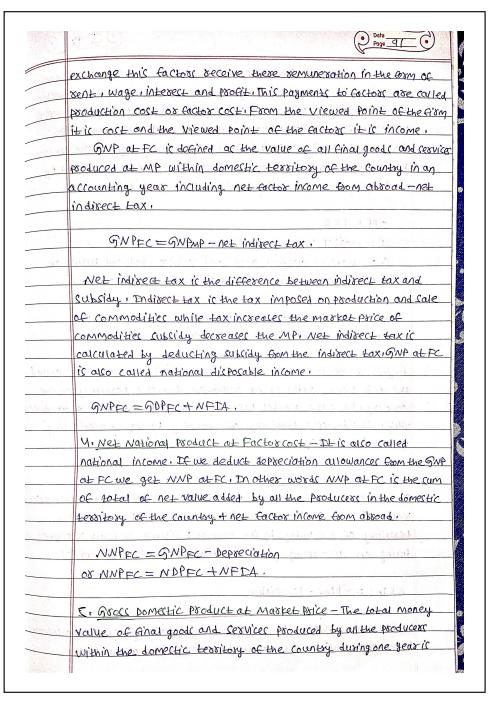
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Q.	computers purchased by a public atility Cost = 25000 each, pas
	records indicate that they should have a useful life of 10 yas.
	after which they will be desposed of with the calvage value of
	\$2000 each Determine i) depociation charge during 1st yr.
	ii) depreciation charge during 2nd yr. iii) depreciation reverse.
mid-c	accompleted in 3 yss. IV) The book value of computers at the ent
aul 7	of 3480. Endorselves was species all the high of the
MIL ba	Tribactic on the line overally of the energy that therefore
(Ans)	P=25000, 5=2000, N=188
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March 2	and a or traces or search to do to the search of the search
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1	National income which states at the state of the stages of the
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	Making and income is used to measure economic growth, It enable
۱	us to gird out the performance of the economic in terms of the
	Largets get for the growth of the economic. The Planners and the
	policy makers of the country will be able to know whether the
	have attain success in their actorts to promote growth to a
-	desirable extend. Expressed in a common currency the notional
	income help or to get a comparative picture of the economic
	growth of different countries.
ľ	In real terms national income is defined as the flow of good
	and cervices produce in an economic during a Particular period
	of time, usually a year. To estimate national income in seal term
	is a difficult task. This is due to the fact that different unit
	of measurement are used for different goods and services.
	the sefese, money is considered as a common unit for measuring
1	national income. Therefore national income can be defined as
	the money measure of net ragglegate of all goods and service
1	moduces to be inhabitance during a specific reviod.
	a steller testod,
	7117-314 - 600 26.2.22 1010 201 1000 1000 1000 1000
	vational income is viewed in 2 mags:
	· National Product 2 · National Income 3 · National Expenditures
	wattorial income sinational Expendituoes
	(National Product - National Mandage
	inational product - National Product consists of all goods and service
	ioduced by the community and exchance formoney during a year
	b does not include the goods and services which are not pay for
	e, hobbies, housewife service chasi table work, etc.
	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1







Page 12

called GDP at MP. Producers may be recidence Producers or non recidence producer. But they much operate within the domestic territory of the reporting country. In other words GDP at MP is defined as the market value of output of final goods and service produced in the domestic territory of a country by all the producer during an accounting year. The value of GDP can be calculated by multiplying total quantity of final goods with price.

GDP = PXQ

P = market value of Ginal goods.

accounting year within the domestic tessitory of the country.

GDP at MP = value of output in domestic territory - value of intermediate consumption = gross value added at MP.

6. Net Domectic Product at Market Price - It is otherwise called the net value added at MP within the domectic territory of the country. It is the market value of final goods and services produced within the domectic territory of a country during an accounting year -depression.

2,3,22

In other words net domestic product at market price is the market value of final goods and services, produced in the domestic territory of a country by its normal residence and my residence during an accounting year 1ess depression in the formula is:

NOPMP = GDPMP - Depociotion.

NDP at MP can also be calculated by deducting net factor income Exom absord from net national product at market price.

Page 97

7. 9 soss Domestic Product at Factor cost - Production is the cooperative working of all factors of Production land labour, capital, and entexprise. In exchange they receive their enumeration in the form of rent, wase linterest and Profit. This payments to factors are called Production cost or factor cost. Dom the viewPoint of the firm it is cost and from the Viewed point of factors it is

GDP at FC is also called gross domestic income. It is equal to the gross value added at factor cost. In other words the GDP at FC is the sum of net value added by all the producers in the domestic territory of the country and consumption of fixed capital luring an accounting year.

GDP at FC = net domectic Product at FC+ depreciation.

SDPFC = SDPMP - Indirect tax + Subsidy

Net Indirect Tax = Indirect tax - Subsidy.

The difference between GDP at FC and GDP at MP is that GDP at FC includes all the elements or GDP at MP except net indisect tax.

GDPFC = GDPMP - net indirect tax.

GDPMP = GDPFC + net indirect tax.

8. NET DOMESTIC PROduct at Factor cost—NDP at FC is also called NET Domestic Income. This is because what is cost for the firms is income for the factors. NDP at FC is equal to the net value.

In other words Net bomestic Income is the income generated in the form of wage, bent, interest and profit. In the, domestic territory of a country by all the producers normal



Recidence and non residence in an accounting year. Thus we consequed the MDP at FC is the sum total of net values added by all the Producers in the domestic textitory of the country during an accounting year.

CONSTITUENT INCludes all the elements of NDP at MP or net laure added except net indirect tax.

NDPEC = NDPMP - NET indirect tax:

- 2. Net Domectic Factor Income [NDFI] The conclituent of NDFI are wage rent interest and profit received by the factors OF Production. Pn India NDFI includes:
- a) contensation of employees which includes wages in each as kind.

 b) containablion of employees whose social security on the behave of the employees whose social security on the behave of the employees.
- c) pension to the retised employers.
- d) operating circus which includes rent, interest and Profit,
- e) mixed income of self employee:

Methods of measuring National Income

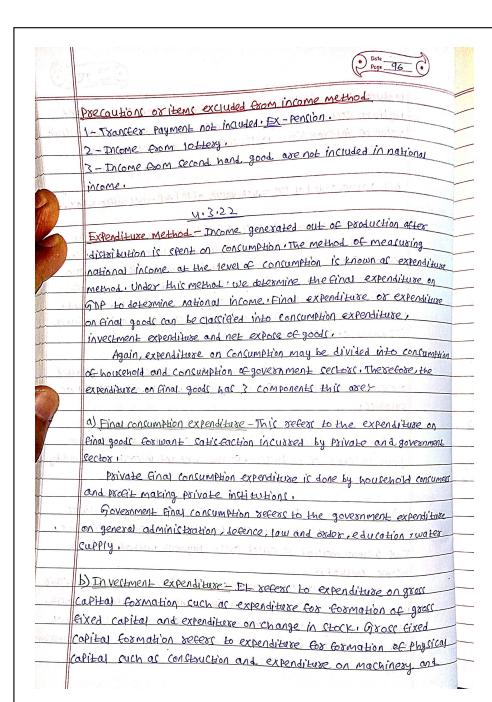
The flow of national income is divided under 3 phases at different level of Production. This refers to measurement of national income a any country by measuring money value of final goods which below to the country or net national Product during a year.

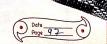
I-value added method or Final output method—In this method we estimate it by multiplying Physical output with MP. then we calculate the value of intermediary consumption by adding the trices Paid by each enterprise for Purchase of goods and services. In this method firstly the

producer Show divided the economy into primary, secondary and textiary sector secondly they have to find out the value of output value of intermediary goods, consumption of fixed capital or depreciation. Net value added at FC = NET value, added MP - net indirect tax MP. 2-Income method - Atthic level individual secrive income for WOOK and PROPERTY. CO, MERCHISEMENT OF national income in income method shows the measurement at the level of distribution, The Net value added is distributed as the reward to the factors of production, national income is the aggregate of factor reward, En this case Classification of Production is made into Primary, Eccondary and textiary sector, a) wages and salaries - The reward for the physical work is called wage and the seward for any type of mental work is called as salavies, b) Rent and interest-It is a income from property which are given interms of production. So the rent and interest are owned by factor owners. C) Groce Profit - It is the seward for risk beering in business which include divident undictaibuted profit, coorporation tax, Thus income method is called factor payment method or flow of income method. Theome method measures from the site of the pagments. This payment may be factor income like sent, wage, interect, Profit. while preparing national income under income method we must

add total factor income generated in the country but not transfer

Payment.





equipments. Change in Stocks is the expenditure for making Production going on or expenditure on raw materials, semi manufacture goods.

C) Net exposts of goods - Resident of a country impost goods and services from abroad. Services here means non factors services like chipping, incurrence etc. Resident on that country living abroad also make purchases abroad. This constituent import of goods and services, on the other hand foreigners also make expenditure on domestic goods and services. Also residence degiding abroad make direct purchase within the country. This constituent export of goods and services. The difference between export and import is known as net exports of goods and services.

7.3.22

Steps to measure national income

First we have to add expenditure on final goods under different heads such as private consumption expenditure, government consumption expenditure, investment expenditure and net expost of goods and cervices. The aggregate offinal expenditure under above heads will show extenditure on domestic product as domestic product oct market price.

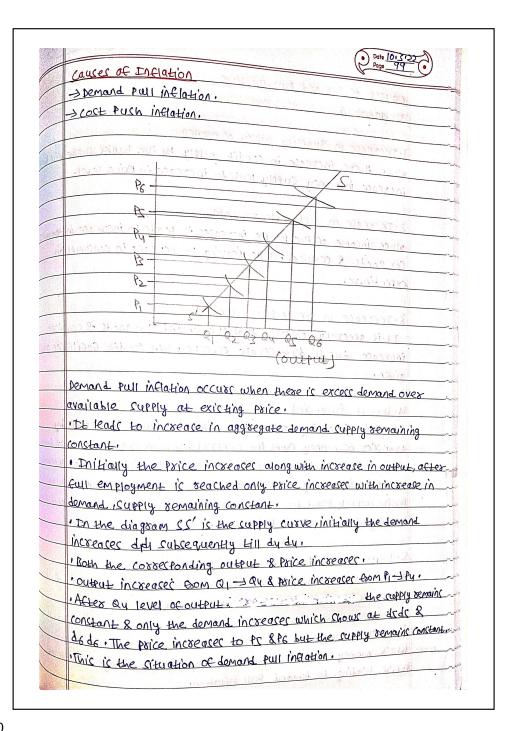
secont adding net factor income Gom absord to domertic product at market price, we get national income at market price, For optimizing national income at market price.

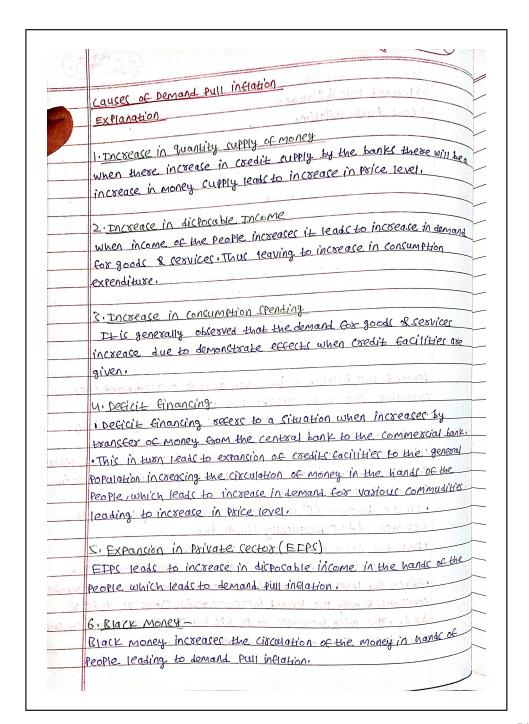
Precautions - The following precautions should be adopted by me acraing national income by expenditure method.

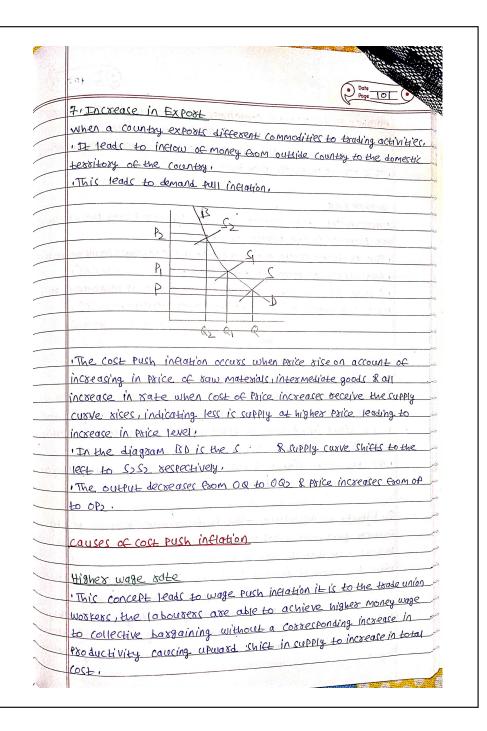
- e) Expenditure on second hand goods should not be included.

 b) Expenditure on purchase of both new and old shares by people should not be included.
- C)Government expendituse on transfer payments such as old age

	Page 98 0
	mension are excluded, and sunt annually standard in the included
2	mension are excluded, d) only expenditure on final goods and services is to be included.
	$N\Gamma = C + \Gamma + G + (X - M)$.
71.	Ayenne pula son de dashira e areni de
	Englation skows great surgers. I shad a contractions
	- Deginition assists and account a make
421	- Typec of inflation - more and
ejly	- causes of inflation and management as along to the transfer
550	- Effects of inflation it are almost a form till at a mall and
3127	meaning a distinct story and the story of th
ion#	Inflation is the situation where the value of money that is the price
50'11	are rising. Here the prices of all goods and services rises
	continuously with no correctionaling increase in output of
	employment,
	La company of the second of th
Sd d	Type Cohou share a marke assistance have a contain soul ?
00	on the Lacic of intencity of price rice inflation is of 4 typect
	1- Greefing-In this case we size in Price rises between 3% to?
101	It is safe for economic growth
	the state of the s
	2-Trotting/walking- If rise in price is in single digit in a year
ub.	It is a warning for the government to control inflation,
	The state of the s
	2- RUMPING COLLEGE TO A STATE OF THE STATE O
10	2-Running Galloping - The xise in Paice is between 10% to 20% which
13	a sessious problem for the economy.
1	Herromains - The following fee maker Charles to the College
14	- Hypex inclution-The rise in paice level is more than galloping
-Hin	Clation: Low Union Marc Land Lands no several 8 100
9 04	and the representation of some balls as well and the action
	- kakurah au u ah ca
1100	In in NIV. Demonstrate as allowed









· Higher Profit margin cometimes monopolistic & aligopolistic Producers to increase their Profitability increase, Price, · Tricolage poice till the cituation leads to constant puch inflation. This secess to Progit Push inclution.

- · GOVERNMENT May increase constant by introducing the variety of
- tax increase in Lax Pasticularly,
- The Producer Shifts the burden to the consumer to increase pices,
- · Availability of Prices of Losic input.
- · A price vice of general input causes a general increase in trice level & becomes a cource of cost Push inflation.

: 1213,22

Effects on inflation

- 1. Effect on Producers- Excepting inflation is quite decirable as it leads to extansion in production, economic action leading to more Profit situation. After au employment is reached, mild inflation taker form of hyper inflation.
- . The Producers find it benificial code the things to that they can cell it when the Asice is high.
- 2. Beforts on distribution—The Producers, Manufacturers and big farmers gain from inflation as the Prices of the Product them server. increase more than the cost of production.
- 1 Fox the farmers it is a benificial situation because as deblers have to give bock leccin terms of goods to the crediters.
- , Depters are those who Lossow Money & repay in autore, they sain during inelation because as the seal income goes down they have to pay less to the exeditors in terms of real value & they stand to



- 3. Effects on Investment Investment on debenzures which yield gized rate of interect implation is not a benificial situation for
- For the fixed income good where the cost of the living index risec. so fixed income through 8 pension holders loce during inflation,

control of inflation

MOTHORS

- . Inflation sefess to a situation whose these is heavy rise in price of commodity.
- . Initially the Phase of inflation is welcomed by the nation as it impleases economic growth but after a certain level it reacher to hypex inflation which needs to be controlled os it is dangerous to the society,
- IIn all the methods of controlling inflation they aim at temanding for goods & services by reducing the disposable income to some extend. These are mainly two methods to control inflation.

Monitary measure

- The central bank adopte a cheap functionary of monitory policy to check inflation.
- III 1st check increase in volume of currency & to avoid bank Credit given to the public to qualitative & quantitative measure to control inflation.

Bank Rage - The central bank increases the rate of interact which will increase market interest I It becomes expensive for the featle to have transaction with in time. Therefore, the money supply in the hards of the people which there excess demand.

Thus demand pull inclotion is reduced.



with the sell of government security the money cupply will be reduced ac the compexial bank has to pay back the money to the central bank for Purchasing government security.

The money supply to the commercial book the money supply is reduced & it is discouraged to the advancement of one to the general Public.

Thus disposable income in the hands of People reduces & demand of goods & services decreased with decreasing inflation.

cach receive ratio

CRR is the amount of money that commercial bank has to detack to the central brank as government, when the commercial brank has to deposit more amount of money to the central bank then the amount of money to the central bank is deduced for transaction of in opposite situation, when the commercial bank deposits less amount of money with the central bank then the money for the transaction increases. Therefore during the transaction the credit Eacilitial are reduced during down payment & reducing payment link in terms of selective basis of control inclation.

Fiscal method

. F.M includes the step taken by the government to control inflation.

1, Public extendituse-Government can seduce to E which will seduce the public money circulation in the market hence demand for good & cexvices gets reduced.

2. Taxation - In-crease in tax reduces the purchasing Power in the hand of people as max. Percentage of money income is reduced Enrough direct tax.

Thus decreasing the disposable income in the hands of People

Tixect or like income tax, meath fax, extendituse fax segured Hisposable income in the hands of the People,

21.3.25

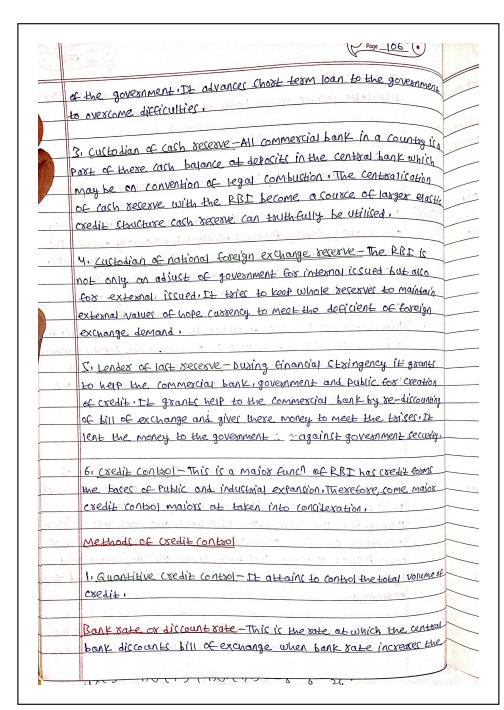
Q. What is central Bank) Explain the Runch of central bank)

(MC) central bank is the institution that manage its state currency and money cupply interect, central pank usually oversed the commercial banks. It checks the funct of commercial banks. The central bank possesses the monopoly of increase in the monetary base in the state and usually playing national currency. The PRI is covered by the central Board of Directors. The board is appointed by the government of India for a pession of 4 years. It ronsists of governer and deputy governer. There are u deputy governer nominated by the government to disectore from various fields and 2 government officials and other y disectore from local good.

Funch of Central Bank

1. Bank of issued - Central bank now a days have monopoly of Note issue in any country. The currency notes printed and issued by the central bank are declared having legal tender through out the country. The PRI has to give " gold orsilver gold orsilver or other securities against note issued. The main objective of note issued is people confidency in the currency maintained by the central bank . It capply its adjusted in the demand of economy.

2. Bank curve, agent and advisor to the government-that the bank curve to the government it seceives payment on the behave





commercial pank baid high rate of interect to regiccount pric Pill of exchange. This acted deveral contours of commercial Pour signing rate of interest leading to increase bookit.

25.3.23

OPEN MOSKET OPEXATION

IN abou masket obsertion these is direct internation of the central bank in the money market by celling and purchasing of cecnsitiec. Mysu it park recognities commercial pour and other financial institution. It injects money flow to money masket. Thus money supply increased leading to expansion of coedity when the central bank . . . (elver securities with cash received peromer terrand money supply decreaser. Thus it leads to

cash receive ratio

cach recesse sotio is also called CRR or cash becesse beguinement This a new method of PBI to increase or decrease money supply. It types to segulate the CRR which commercial bank harto maintain with the reserve bank of Fadig. This helps in increase or decrease with money supply and credit control.

Celective exerit control or Qualitative exert control

The central bank disectly offects the bank credit only in those sectors of the economy where we want to approved them by celecting pursower eligible for the credit.

I Margin requirement is fixed for granting loan,

2. Regulation of concumer Cordit- In this system the central bank helps in segulating terms and condition for consumer exedit.



inchesect sate. to discourage execute cashift case is the secence bank of the secence bank of the secence bank of the secence bank of the secence bank wants to increase the money supply it gives a low insteased bank wants to increase the money supply it gives a low insteased bank wants to increase the money supply it gives a low insteased bank wants to encourage execute casilities.

Mi Raposate or sepuschase sate is the benchmark insterest bate at which the reserve bank of India lends to all other banks for a short term, when a superate instructed bossowing from a RRI becomes expensive. Hence, the constament or the public has to bear the outcome of high insterest rate.

BOAKS - Banks are institutions which asscribe deposits of money from the public and lead it to others.

Funct of a Bank

ti-Accepting deposits of money from the public to use the deposit

2. give loans.

3. Different financial institution also accounts deposits and give to ans. The difference beth banks and the institution is that bank transaction is widely accounted in the central bank of depts.

commercial bank—A commercial bank is one which deals in shoot to the people for Productive purposes. It also provides financial to the people for Productive purposes. It also provides financial



Acceptance of deposits

The commercial bank borrow money in Goom of deposits from the people who have excess money with them or excess savings which can be deposited in the bank.

current deposit / Demand Deposit

A deposit in a cussent account can be withdown at any time

-> The banks charge a very small interest rate tradeous
businessman who have daily transaction keep their money in this

Fixed DePosit

There are those deposits which cannot be withdrown before expiry Period for which deposits are made. The rate of interest is higher for longer period and lower for chorter period.

Savings Bank Deposit

The de Posits axe deposit in the caving account they accept small

>This deposits are at a lower rate of interest.

Reocussing Deposit

Under this type of deposit the deposit is require to deposit a gixed amount of money for a specific time, which may vary from a year to 10 years. After the completion of the time period the depositor can with a raw the money with the interest rate.

Miscellaneous Deposits

APPOSITE Children gift Plan, old age Pension Scheme etc.

